

P R O D U C T C A T A L O G



CONSUMER
ENERGY SOLUTIONS



CONSUMER



“Pure Power” ^{Years} 50 years old...

tuncmatik was established in İstanbul in 1969 with the aim of making domestic production in the field of electricity and electronics in Turkey.

In 1970s **tuncmatik** started to manufacture the TV voltage regulators, which was a first in Turkey and this made our name well known all around the country.

Later in 1980s in order to find solution to the increasing energy shortage in our country, we started to manufacture alternators and generators. Then in 1990s by the newly popular technology of personal computers entering the Turkish market we started to invest in uninterruptible power supplies and since then; as the energy solution brand of Turkey; tuncmatik have been providing new solutions to Turkey's developing demands day by day.

Our vision is to ensure everyone's accessibility to the energy solutions and resources provided by us. Our mission is to deliver pure power to you in an uninterrupted and safe way.

With this mission we offer you the widest product family of Turkey in the field of energy with products such as,

- Uninterruptible Power Supplies
- Battery Solutions
- Regulators
- Industrial Energy Solutions
- Energy Conservation Sockets
- Solar Energy Solutions (Photovoltaic)

As **tuncmatik** our closeness to our customers enables us to understand them in a better manner.

while designing and developing our products in order to afford their demands as quickly as possible

Our values;

- Reliability
- Availability
- Quality
- Innovation
- Productivity
- Functionality
- Creativity

As Turkey's leading energy solution company, beside having 7 regional support offices and 58 technical service centres across Turkey; we also do export to more than 30 countries all over the world. We have won many awards both in domestic and international arena based on our products and designs and have been selected as the company of the year in Europe's energy and power solutions by Distree 2 years in a row, we have been repeatedly shown among the top 50 fastest growing companies in Turkey by the International Audit and Research Firm Deloitte.

As the **tuncmatik** team, we thank you for your support and trust in us.

We continue to work to offer you the best quality products with the strength and confidence we receive from you,

Loves and respects,

Mehmet ÖZER
Chairman

tuncmatik

CONSUMER

Energy Solutions



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SURGE PROTECTORS

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REGULATOR

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UNINTERRUPTIBLE POWER SUPPLIES

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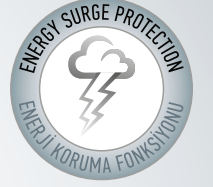
MODEM UPS

Nano UPS	18
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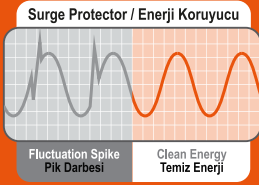
tuncmatik POWERSURGE 1

SURGE PROTECTORS

1



It protects your computers and other valuable electrical/electronic devices against surge and lightning effects that occur in mains.



TECHNICAL SPECIFICATION

- Protection Capacity: 525 Joules
- Maximum Current: 3000 Amper
- Maximum Peak Voltage: 6 kV
- Rated Current: 10 Amper
- 1 Childproof Outlets
- On/Off Button
- Socket Suitable For Connecting Large Adapters
- Right Angled Outlets For Practical Use
- 10 Amp Auto Fuse
- Fire Resistant Plastic Body



Black



White

525
Joules

Protection Capacity

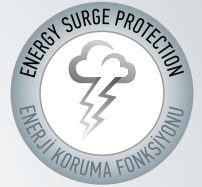
3000
Amper

Maximum Current

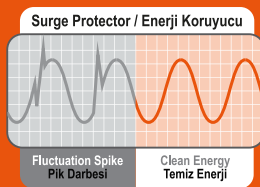
tuncmatik POWERSURGE 2

SURGE PROTECTORS

2



It protects your computers and other valuable electrical/electronic devices against surge and lightning effects that occur in mains.



TECHNICAL SPECIFICATION

- Protection Capacity: 525 Joules
- Maximum Current: 3000 Amper
- Maximum Peak Voltage: 6 kV
- Rated Current: 10 Amper
- 2 Childproof Outlets
- On/Off Button
- Socket Suitable For Connecting Large Adapters
- Right Angled Outlets For Practical Use
- 10 Amp Auto Fuse
- Fire Resistant Plastic Body



Black



White

525**Joules**

Protection Capacity

3000**Amper**

Maximum Current

Provides protection for sensitive electrical/electronic devices



tuncmatik POWERSURGE

SURGE PROTECTORS

TO SEE THE DIFFERENCE LOOK INSIDE



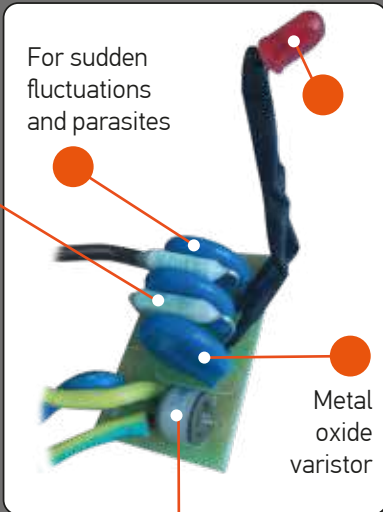
ENERGY SURGE PROTECTION



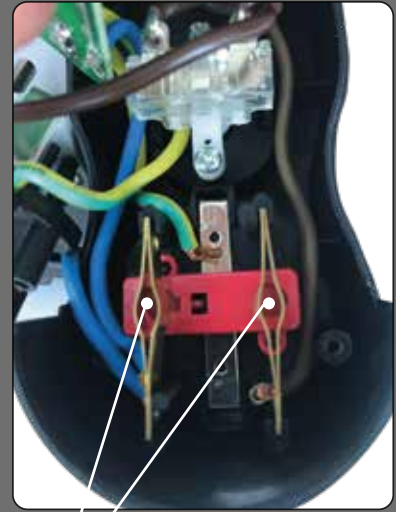
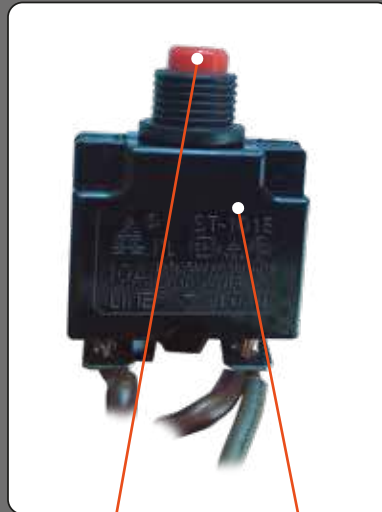
OVERLOAD PROTECTION



CHILD SAFETY OUTLETS

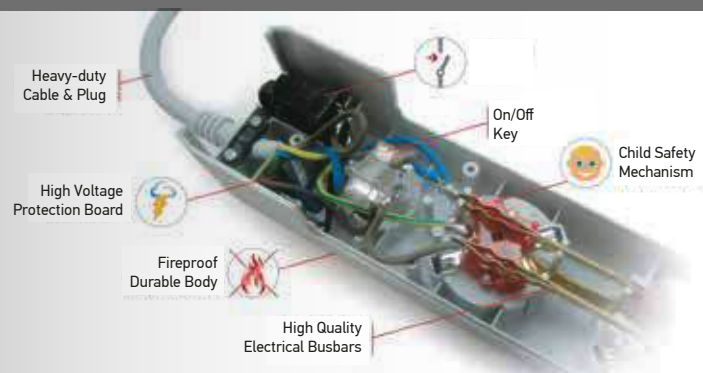


Thermal fuse against high temperature



Child safety mechanism

The protective mechanism that prevents your children from putting their fingers in the outlets.

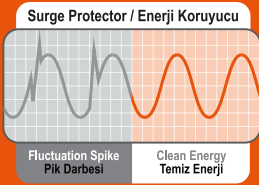


tuncmatik
POWERSURGE 3
SURGE PROTECTORS

3



It protects your computers and other valuable electrical/electronic devices against surge and lightning effects that occur in mains.



TECHNICAL SPECIFICATION

- Protection Capacity: 525 Joules
- Maximum Current: 3000 Amper
- Maximum Peak Voltage: 6 kV
- Rated Current: 10 Amper
- 3 Childproof Outlets
- On/Off Button
- Socket Suitable For Connecting Large Adapters
- Right Angled Outlets For Practical Use
- 10 Amp Auto Fuse
- Fire Resistant Plastic Body



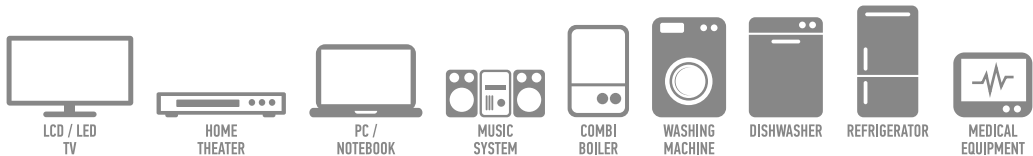
Black

White

525
Joules
Protection Capacity

3000
Amper
Maximum Current

Provides protection for sensitive electrical/electronic devices

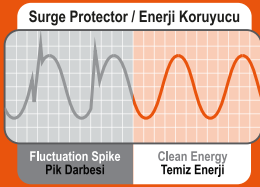


tuncmatik POWERSURGE 5

SURGE PROTECTORS

5

It protects your computers and other valuable electrical/electronic devices against surge and lightning effects that occur in mains.



TECHNICAL SPECIFICATION

- Protection Capacity: 1050 Joules
- Maximum Current: 8000 Amper
- Maximum Peak Voltage: 6 kV
- Rated Current: 10 Amper
- Voltage Class: 250 VAC, 50 Hz
- Clamping Tension: 1200 V
- 1-line Full Energy Protection P-N
- Response Time: <1 nanosecond
- 5 Childproof Outlets
- On/Off Button
- Socket Suitable For Connecting Large Adapters
- Right Angled Outlets For Practical Use
- 10 Amp Auto Fuse
- Heavy Duty Cable and Plug
- Fire Resistant Plastic Body



Black

White



1050
Joules
Protection Capacity

8000
Amper
Maximum Current

15m
Cable

Provides protection for sensitive electrical/electronic devices



tuncmatik

POWERSURGE 5+USB

SURGE PROTECTORS

5+USB

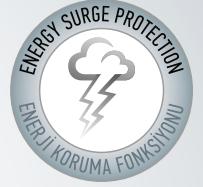


1050

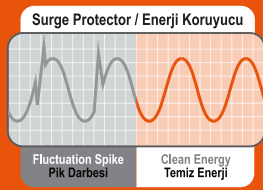
Joules
Protection Capacity

8000

Amper
Maximum Current



It protects your computers and other valuable electrical/electronic devices against surge and lightning effects that occur in mains.



TECHNICAL SPECIFICATION

- 2 x 2.4 A USB Inputs
- Protection Capacity: 1050 Joules
- Maximum Current: 8000 Amper
- Maximum Peak Voltage: 6 kV
- Rated Current: 10 Amper
- Voltage Class: 250 VAC, 50 Hz
- Clamping Tension: 1200 V
- 1-line Full Energy Protection P-N
- Response Time: <1 nanosecond
- 5 Childproof Outlets
- On/Off Button
- Socket Suitable For Connecting Large Adapters
- Right Angled Outlets For Practical Use
- 10 Amp Auto Fuse
- Heavy Duty Cable and Plug
- Fire Resistant Plastic Body

15m
Cable

Provides protection for sensitive electrical/electronic devices



CE

tuncmatik REGULINE

600/1000/2000/3000 VA

ELECTRONIC MONOPHASE REGULATOR

140-260V

Input Voltage Range



*It provides
unregulated energy and
full protection for all
your sensitive devices.*

- Compact design
- Automatic voltage regulation
- Wide voltage range from 140-260V
- Voltage indicator
- Digital control with CPU
- Fireproof plastic body
- Short circuit protection
- Overload protection with thermal fuse
- High/Low voltage protection
- High heat Protection

With the heat sensor inside the transformer windings, it provides protection against overheating that may occur for any reason, and offers safe operation.



WORKING PRINCIPLE

REGULINE series regulators monitor the mains voltage and are precision regulator devices with microprocessor that keep the voltage level within $220V \pm 10\%$ tolerance limit, which does not pose a risk for electronic devices. When the mains voltage goes out of $220V \pm 10\%$ tolerance, it decreases if the voltage is high, and increases it if it is low. If the mains voltage is too low or high to be regulated, it turns off its output in order to protect the devices it is connected to. (for example: if the mains voltage has increased to 300V)



Provides protection for sensitive electrical/electronic devices



Teknik Özellikleri

tuncmatik
REGULINE
600/1000/2000/3000 VA
 ELECTRONIC MONOPHASE
 REGULATOR



CAPACITY	600 VA 300 W	1000 VA 500 W	2000 VA 1000 W	3000 VA 1500 W
INPUT				
Input Voltage	220 VAC			
Input Voltage Range	140 - 260 VAC			
Frequency Range	50 Hz ~ 60 Hz			
Fuse	3.5 A	4.5 A	10 A	16 A
OUTPUT				
Output Voltage Range	220 V ± %10			
Protection	Short circuit, Over temperature, Output voltage, Overload protections			
INDICATORS				
High voltage mode (Boost)	Red LED			
Low voltage mode (Buck)	Yellow LED			
DIMENSIONS & WEIGHT				
D x W x H (mm)	215 x 114 x 116		270 x 144 x 150	
Weight (kg)	2,05	2,66	4,85	5,8
ENVIRONMENTAL				
Humidity	0-40 °C temperature 0-90% relative humidity (non-condensing)			
Noise level	< 40 dB, 1 meters			

REGULINE 600 / 1000 VA



REGULINE 2000 / 3000 VA



tuncmatik

LITE II

650/850/1000 VA

LINE-INTERACTIVE UPS



Audible alarms that are activated when line-interactive UPSs are in battery mode can be silenced with the smart button of the Lite II.

Line-Interactive design

Line-Interactive UPSs supply the computers and electronic devices connected to it with electricity directly from the mains. When the voltage from the network drops or rises, through the transformer inside, it provides electricity at the appropriate voltage to the loads it is connected to. When the electricity is cut off, it feeds the loads connected to the UPS from its battery.

Compact dimensions and modern design

Perfect compatibility with home and office.

Secure CPU control

To perform all its functions accurately and on time, Lite II is equipped with a high-speed CPU. High speed CPU, safe operation of UPS; manages overload, under voltage and over voltage protections. It also provides protection against low and high voltage.

Overload, low/high voltage and short circuit protection

Thanks to the many electronic protection features of Lite II, its useful life is extended. For instance; If you accidentally overload your Lite II, it will automatically detect the load and protect itself by turning itself off without causing any damage to the UPS. It also provides protection against low and high voltage.

Automatic Voltage Regulation function (AVR)

Lite II also acts as a voltage regulator thanks to its wide voltage range transformer. If the voltage from the mains is too high or low, it brings the voltage to the optimum level and provides the most suitable voltage for the loads it is connected to.

Ability to charge when closed

To charge the batteries, simply plug the Lite II into the socket.

Auto restart when mains return

When the power is cut, if the Lite II shuts down by depleting its battery, when the power comes back on, it automatically restarts and starts charging its batteries.

Cold Start feature

Lite II can be operated directly from batteries even when there is no mains electricity.

Simulated sine output

Lite II generates simulated sine, suitable for computers and electronic devices.

Fast charger that shortens charging time by 50%

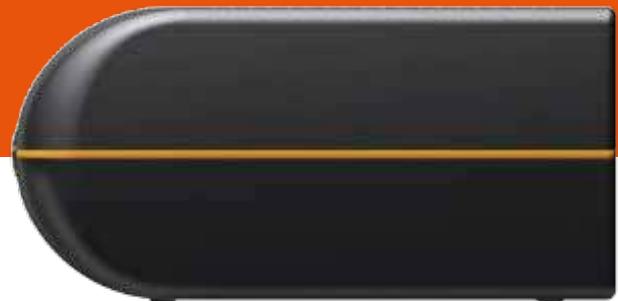
While many UPS can charge their batteries in only 8-10 hours, Lite II fills its batteries in about 4 hours, providing safe use in areas where power cuts are common.

USB communication port and software (1000 VA)

You can connect to Lite II via your computer via the USB port with the help of software (download from www.tuncmatik.com) and USB cable, get information about its current status and program how it will behave in case of electricity cut off. According to this program, when the mains power is cut off, according to your choice Lite II sequentially first turns off your computer and then itself.

RJ45 protection port (1000 VA)

Lite II has a port that protects your data-modem line against power surges.



tuncmatik
LITE II
650/850/1000 VA
 LINE-INTERACTIVE UPS



CAPACITY	650 VA 360 W	850 VA 480 W	1000 VA 600 W
INPUT			
Input Voltage	220 / 230 / 240 VAC		
Input Voltage Range	162-265 VAC		
Frequency	50 / 60 Hz ± %10		
OUTPUT			
Output Voltage	220 VAC		
Output Voltage Range	± %10		
Frequency Range (Synchronous mode)	50 / 60 Hz ± %4		
Frequency Range (Battery mode)	50 ± 0.25 Hz - 60 ± 0.3 Hz		
Transfer time	2 - 6 msn, 10 msn maxs.		
Waveform	Simulated sine		
BATTERY			
Type & quantity	12V 7Ah x 1	12V 9Ah x 1	12V 7Ah x 2
Charge time	%90 up to capacity 4-6 hours		
Charge voltage	14.0 VDC		27.0 VDC
Charge current	1.0 A		
INDICATORS			
LED Display	Mains operation, Battery operation, Error status		
Alarm	Battery mode, Low Battery, Overload, Error		
DIMENSIONS & WEIGHT			
D x W x H (mm)	322 x 122 x 160		392 x 179 x 209
Weight (kg)	4.5	5.1	8.0
ENVIRONMENTAL			
Working temperature	0-40 °C		
Humidity	%20-90 relative humidity (non-condensing)		
Noise level	< 40 dBA		
SOFTWARE & MANAGEMENT			
USB communication port	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC		
RJ45 protection port	(RJ45) Network - Modem protection		

LITE II
650 VA

KAPASİTE / CAPACITY

1
PC

15
dk/min
Yaklaşık / approx.

LITE II
850 VA

KAPASİTE / CAPACITY

1 **1**
PC PRINTER

10
dk/min
Yaklaşık / approx.

LITE II
1000 VA

KAPASİTE / CAPACITY

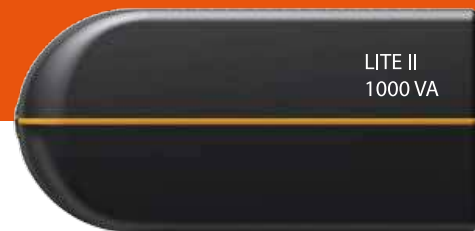
2 **1**
PC PRINTER

10
dk/min
Yaklaşık / approx.

1 x 12V/7Ah battery
 2 grounded socket outlet
 Auto insurance

1 x 12V/9Ah battery
 2 grounded socket outlet
 Auto insurance

2 x 12V/7Ah battery
 4 grounded socket outlet
 Auto insurance



tuncmatik DIGITECH ECO 1500/2000 VA LINE-INTERACTIVE UPS



Audible alarms that are activated when line-interactive UPSs are in battery mode can be silenced with the smart button of the Digitech Eco.

Line-Interactive design

Line-Interactive UPSs supply the computers and electronic devices connected to it with electricity directly from the mains. When the voltage from the network drops or rises, through the transformer inside, it provides electricity at the appropriate voltage to the loads it is connected to. When the electricity is cut off, it feeds the loads connected to the UPS from its battery.

Compact dimensions and modern design

Perfect compatibility with home and office.

Secure CPU control

To perform all its functions accurately and on time, Digitech Eco is equipped with a high-speed CPU. High speed CPU, safe operation of UPS; manages overload, under voltage and over voltage protections. It also provides protection against low and high voltage.

Overload, low/high voltage and short circuit protection

Thanks to the many electronic protection features of Digitech Eco, its useful life is extended. For instance; If you accidentally overload your Digitech Eco, it will automatically detect the load and protect itself by turning itself off without causing any damage to the UPS. It also provides protection against low and high voltage.

Automatic Voltage Regulation function (AVR)

Digitech Eco also acts as a voltage regulator thanks to its wide voltage range transformer. If the voltage from the mains is too high or low, it brings the voltage to the optimum level and provides the most suitable voltage for the loads it is connected to.

Ability to charge when closed

To charge the batteries, simply plug the Digitech Eco into the socket.

Auto restart when mains return

When the power is cut, if the Digitech Eco shuts down by depleting its battery, when the power comes back on, it automatically restarts and starts charging its batteries.

Cold Start feature

Digitech Eco can be operated directly from batteries even when there is no mains electricity.

Simulated sine output

Digitech Eco generates simulated sine, suitable for computers and electronic devices.

Fast charger that shortens charging time by 50%

While many UPS can charge their batteries in only 8-10 hours, Digitech Eco fills its batteries in about 4 hours, providing safe use in areas where power cuts are common.

USB communication port and software (1000 VA)

You can connect to Digitech Eco via your computer via the USB port with the help of software (download from www.tuncmatik.com) and USB cable, get information about its current status and program how it will behave in case of electricity cut off. According to this program, when the mains power is cut off, according to your choice Digitech Eco sequentially first turns off your computer and then itself.

RJ45 protection port (1000 VA)

Digitech Eco has a port that protects your data-modem line against power surges.



tuncmatik DIGITECH ECO 1500/2000 VA

LINE-INTERACTIVE UPS



CAPACITY	1500 VA 900 W	2000 VA 1200 W
INPUT		
Input Voltage	220 / 230 / 240 VAC	
Input Voltage Range	162-265 VAC	
Frequency	50 / 60 Hz ± %10	
OUTPUT		
Output Voltage	220 VAC	
Output Voltage Range	± %10	
Frequency Range (Synchronous mode)	50 / 60 Hz ± %4	
Frequency Range (Battery mode)	50 ± 0.25 Hz - 60 ± 0.3 Hz	
Transfer time	2 - 6 msn, 10 msn maxs.	
Waveform	Simulated sine	
BATTERY		
Type & quantity	12V 9Ah x 2	12V 9Ah x 2
Charge time	%90 up to capacity 6 hours	
Charge voltage	27.0 VDC	27.0 VDC
Charge current	1.0 A	
INDICATORS		
LED Display	Mains operation, Battery operation, Error status	
Alarm	Battery mode, Low Battery, Overload, Error	
DIMENSIONS & WEIGHT		
D x W x H (mm)	392 x 177 x 211	
Weight (kg)	10.7	11.45
ENVIRONMENTAL		
Working temperature	0-40 °C	
Humidity	%20-90 relative humidity (non-condensing)	
Noise level	< 40 dBA	
SOFTWARE & MANAGEMENT		
USB communication port	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC	
RJ45 protection port	(RJ45) Network - Modem protection	

**DIGITECH ECO
1500 VA**

KAPASİTE / CAPACITY

3
PC

10
dk/min
Yaklaşık / approx.

**DIGITECH ECO
2000 VA**

KAPASİTE / CAPACITY

4 PC **1** PRINTER

7
dk/min
Yaklaşık / approx.

2 x 12V/9Ah battery
4 grounded socket outlet
Auto insurance

2 x 12V/9Ah battery
4 grounded socket outlet
Auto insurance



Digitech Pro Serisi

Line Interactive Uninterruptible Power Supplies

ADVICE
FROM
TUNÇ



Congratulations! You have chosen the most stylish protection!

With **tuncmatik Digitech Pro Series Line Interactive Uninterrupted Power Sources**, you will not be without electricity in your home and office. With **overload, low/high voltage and short circuit protection** you will enjoy clean and uninterrupted electricity. Not only will your valuable devices connected to electricity be affected by circulating electricity and voltage fluctuations, but also one of the most elegant and quiet furniture of your home and workplace will join your family. So what are we doing?

We chose elegance and quality!



tuncmatik
DIGITECH PRO
650/850/1000/1600/2200 VA
LINE-INTERACTIVE UPS



Audible alarms that are activated when line-interactive UPSs are in battery mode can be silenced with the smart button of the Digitech Pro.

Modern and elegant look

Today's computer users not only want a working UPS, but also a device that looks pretty cool. The indicator of the Digitech Pro is unique because of its upward facing design. If you think that 90% of the UPSs are on the ground or under the table, Digitech Pro users can see the indicator without leaning to the ground.

Multi-functional LCD display

Digitech Pro by its distinctive LCD display provides the user with; visually presents information such as input/output voltage, load level, battery level and overload.

Secure CPU control

To perform all its functions accurately and on time, Digitech Pro is equipped with a high-speed CPU. High speed CPU, safe operation of UPS; manages overload, under voltage and over voltage protections. It also provides protection against low and high voltage.

Overload, low/high voltage and short circuit protection

Thanks to the many electronic protection features of Digitech Pro, its useful life is extended. For instance; If you accidentally overload your Digitech Pro, it will automatically detect the load and protect itself by turning itself off without causing any damage to the UPS. It also provides protection against low and high voltage.

Automatic Voltage Regulation function (AVR)

Digitech Pro also acts as a voltage regulator thanks to its wide voltage range transformer. If the voltage from the mains is too high or low, it brings the voltage to the optimum level and provides the most suitable voltage for the loads it is connected to.

Ability to charge when closed

To charge the batteries, simply plug the Digitech Pro into the socket.

Auto restart when mains return

When the power is cut, if the Digitech Pro shuts down by depleting its battery, when the power comes back on, it automatically restarts and starts charging its batteries.

Cold Start feature

Digitech Pro can be operated directly from batteries even when there is no mains electricity.

Simulated sine output

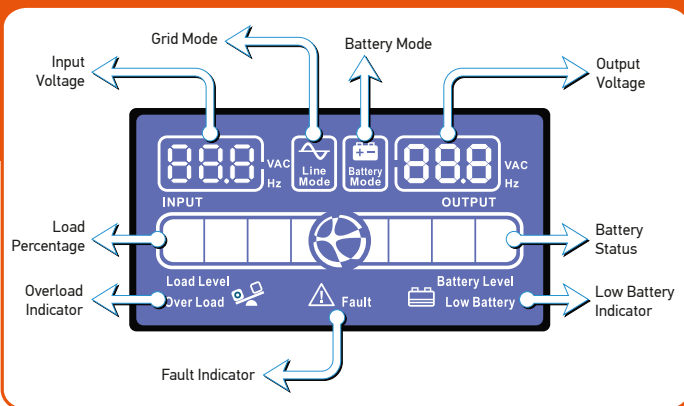
Digitech Pro generates simulated sine, suitable for computers and electronic devices.

Fast charger that shortens charging time by 50%

While many UPS can charge their batteries in only 8-10 hours, Digitech Pro fills its batteries in about 4 hours, providing safe use in areas where power cuts are common.

USB communication port and software (1000 VA)

You can connect to Digitech Pro via your computer via the USB port with the help of software(download from www.tuncmatik.com) and USB cable, get information about its current status and program how it will behave in case of electricity cut off. According to this program, when the mains power is cut off, according to your choice Digitech Pro sequentially first turns off your computer and then itself.



Digitech Pro LCD Display

Digitech Pro immediately attracts attention with its elegant design and user-friendly advanced LCD display. Thanks to the multi-functional easy-to-read LCD display; warnings such as input/output voltage value, battery capacity and load level can be easily monitored.



tuncmatik DIGITECH PRO

650/850/1000/
1600/2200 VA

LINE-INTERACTIVE UPS



CAPACITY	650 VA 360 W	850 VA 480 W	1000 VA 600 W	1600 VA 960 W	2200 VA 1320 W
INPUT					
Input Voltage	220 / 230 / 240 VAC				
Input Voltage Range	162-265 VAC				
Frequency	50 / 60 Hz ± %10				
OUTPUT					
Output Voltage	220 VAC				
Output Voltage Range	± %10				
Frequency Range (Synchronous mode)	50 / 60 Hz ± %4				
Frequency Range (Battery mode)	50 ± 0.25 Hz - 60 ± 0.3 Hz				
Transfer time	2 - 6 msn, 10 msn maxs.				
Waveform	Simulated sine				
BATTERY					
Type & quantity	12V 7Ah x 1	12V 9Ah x 1	12V 7Ah x 2	12V 9Ah x 2	
Charge time	%90 up to capacity 4-6 hours				
Charge voltage	14.0 VDC		27.0 VDC		
Charge current	1.0 A				
INDICATORS					
LED Display	Mains operation, Battery operation, Error status				
Alarm	Battery mode, Low Battery, Overload, Error				
DIMENSIONS & WEIGHT					
D x W x H (mm)	321 x 123.5 x 163.5		392 x 177 x 211		
Weight (kg)	4.4	5.1	8.4	10.7	11.45
ENVIRONMENTAL					
Working temperature	0-40 °C				
Humidity	%20-90 relative humidity (non-condensing)				
Noise level	< 40 dBA				
SOFTWARE & MANAGEMENT					
USB communication port	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC				
RJ45 protection port	(RJ11) Phone protection		(RJ45) Network - Modem protection		

**DIGITECH PRO
650 VA**

KAPASİTE / CAPACITY

1
PC

10
dk/min
yaklaşık / approx.

**DIGITECH PRO
850 VA**

KAPASİTE / CAPACITY

1 **1**
PC PRINTER

10
dk/min
yaklaşık / approx.

**DIGITECH PRO
1000 VA**

KAPASİTE / CAPACITY

2
PC

15
dk/min
yaklaşık / approx.

**DIGITECH PRO
1600 VA**

KAPASİTE / CAPACITY

3 **1**
PC PRINTER

10
dk/min
yaklaşık / approx.

**DIGITECH PRO
2200 VA**

KAPASİTE / CAPACITY

4 **1**
PC PRINTER

7
dk/min
yaklaşık / approx.

DIGITECH PRO 650: 1 x 12V/7Ah battery
DIGITECH PRO 850: 1 x 12V/9Ah battery
2 grounded socket outlet
Auto insurance

2 x 12V/7Ah battery
4 grounded socket outlet
Auto insurance

2 x 12V/7Ah battery
4 grounded socket outlet
Auto insurance



tuncmatik
NEWTECH PRO II X9
LCD
1/2/3 kVA
ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

High output power factor (PF=0.9)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

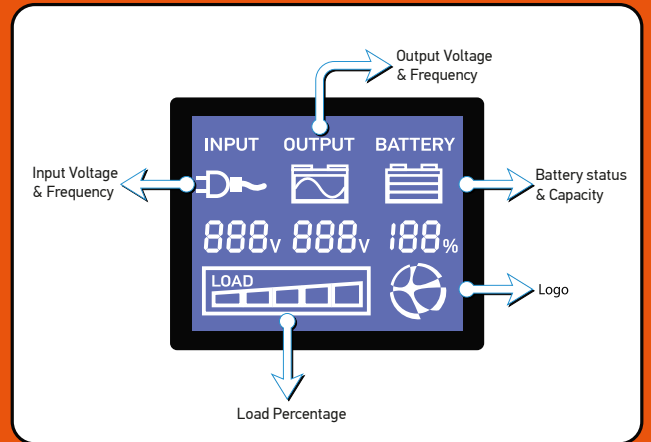
Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

NEWTECH PRO II X9 LCD 1 kVA (1/1)	NEWTECH PRO II X9 LCD 2 kVA (1/1)	NEWTECH PRO II X9 LCD 3 kVA (1/1)
KAPASİTE / CAPACITY		
3 PC 3 MONITOR	6 PC 6 MONITOR	9 PC 9 MONITOR
1 PRINTER 1 PC 30 dk/min Yaklaşık / approx.	2 PRINTER 2 PC 30 dk/min Yaklaşık / approx.	3 PRINTER 3 PC 30 dk/min Yaklaşık / approx.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- ECO Mode Feature
- High Energy Saving



tuncmatik NEWTECH PRO II X9 1/2/3 kVA ONLINE UPS



CAPACITY		1000 VA 900 W	2000 VA 1800 W	3000 VA 2700 W		
INPUT						
Rated voltage		200 / 208 / 220 / 230 / 240 VAC				
Voltage range	Low voltage transfer	%100-%80at load160 VAC ±%5, %80-%70 at load140 VAC ± %5, %70-%60 at load120 VAC ±%5, %60-%0 at load110 VAC ±%5, (<35°C)				
	Low voltage correction	%100-%80at load175 VAC ±%5, %80-%70 at load155 VAC ± %5, %70-%60 at load135 VAC ±%5, %60-%0 at load125 VAC ±%5, (<35°C)				
	High voltage transfer	300 VAC ± %5				
	High voltage correction	290 VAC ± %5				
Frequency range		40 Hz ~ 70 Hz				
Power factor		%100at load 0.990 (rated input voltage)				
Bypass voltage range		Bypass high voltage point 200/208/220/230/240 VAC output models: 230-264: range can be adjusted from the LCD panel. (Factory value: 264VAC) Bypass high voltage point 200/208/220/230/240 VAC output models: 170-220: range can be adjusted from the LCD panel. (Factory value: 170VAC)				
Phase		One phase + Earth				
OUTPUT						
Output Voltage		200 / 208 / 220 / 230 / 240 VAC				
Output power factor (PF)		0.9				
AC voltage regulation (Battery mode)		± %1				
Frequency Range (Synchronous mode)		47 Hz ~ 53 Hz veya 57 Hz ~ 63 Hz				
Frequency Range (Battery mode)		50 Hz or 60 Hz ± 0.1 Hz				
Overload	Line Mode	%105-110 10dk then by-pass, %110-130 1dk then by-pass, %130-150 3sn then by-pass				
	Battery Mode	%105-110 1dk then by-pass, >%110 3sn then by-pass,				
Crest Factor		3:1 maxs.				
Harmonic distortion		≤ %3 THD (linear load) ≤ %6 THD (non-linear load)				
Transfer time	Line ↔ Battery Mode	0 msn				
	Inverter ↔ By-pass	4 msn (typical)				
Waveform (Battery mode)		Full Sine Wave				
EFFICIENCY						
Line Mode		~ %88	~ %89	~ %90		
Battery Mode		~ %83				
BATTERY						
Type & quantity	12V9AH	It depends on the capacity of the external batteries.	12V9AH	It depends on the capacity of the external batteries.	12V9AH	It depends on the capacity of the external batteries.
Battery quantity	2	2	4	4	6	6
Support time	Depends on battery capacity					
Charge voltage	27.4 VDC ± %1	27.4 VDC ± %1	54.7 VDC ± %1	54.7 VDC ± %1	82.1 VDC ± %1	82.1 VDC ± %1
Charge current	1A	12A	1A	12A	1A	12A
INDICATORS						
LED Display	UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status					
Alarm	Mains fault, Low battery, Overload, System fault					
DIMENSIONS & WEIGHT						
D x W x H (mm)	293 x 144 x 209	293 x 144 x 209	399 x 144 x 209	399 x 144 x 209	460 x 191 x 337	460 x 191 x 337
Weight (kg)	8.9	4.2	16.2	6.3	24.8	6.5
ENVIRONMENTAL						
Working temperature	0-40 °C					
Humidity	%20-90 relative humidity (non-condensing)					
Noise level	< 50 dBA, 1 meters					
SOFTWARE & MANAGEMENT						
Smart RS-232 or USB	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC					
SNMP (Optional)	Power management with SNMP manager and web browser					

tuncmatik NANO UPS



ADVICE FROM TUNÇ

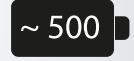
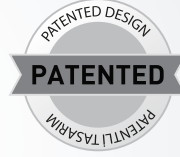
Even if the electricity cuts off, they made an internet that doesn't cut off.

If you have a **tuncmatik NANO UPS**, your devices such as **modem**, **dect phone** and **security camera** will continue to work uninterruptedly even if the power is cut off. What do we do for uninterrupted internet enjoyment and always clean electricity?

We use tuncmatik NANO UPS!

tuncmatik NANO UPS

MODEM UPS



DEFA ŞARJ
KAPASİTESİ

This product with advanced technology;

- MODEM
- DECT PHONE
- SECURITY CAMERAS

etc. is designed to power devices when mains power fails. NANO UPS is also used as a DC source instead of an adapter. Use NANO UPS for uninterrupted internet enjoyment.



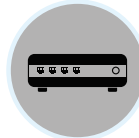
TECHNICAL SPECIFICATIONS

	NANO UPS STANDART EDITION	NANO UPS TELECOM EDITION
Input	100-240 VAC 0.3A MAX	100-240 VAC 0.5A MAX
Output	5V DC 2A 6V DC 2A, 9V DC 1.3A 12V DC 1A	12V DC 2A
Capacity	6000mAh	6000mAh
Battery	Li-Polymer	Li-Polymer
Battery Charge Cycle	~500 times	~500 times
Battery Charging Time	8 hour	8 hour
Load Protection	>%100 >15second	>%100 >15second
Short Circuit Protection	Yes	Yes
Dimensions (mm)	120x72x39	120x72x39
Weight	265 gr	265 gr



USAGE AREAS

MODEM, SECURITY CAMERA, SWITCH, DECT TELEFON





Before using these products carefully read the important informations, user guide and instructions manuel. **tuncmatik** cannot be held responsinle for network performance and/or the products of other manufacturers used on the network. Technical specifications can change without notice.



Tunçmatik Elektrik Malzemeleri Sanayi ve Ticaret A.Ş.

İstanbul Genel Müdürlük

Eyüp Sultan Mah, Müminler Cad, No:82 34885 Sancaktepe İSTANBUL

T : +90 216 314 51 51 F : +90 216 420 35 29 info@tuncmatik.com

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P R O D U C T C A T A L O G



PROFESSIONAL
ENERGY SOLUTIONS



PROFESSIONAL





“Pure Power” ^{Years} 50 years old...

tuncmatik was established in İstanbul in 1969 with the aim of making domestic production in the field of electricity and electronics in Turkey.

In 1970s **tuncmatik** started to manufacture the TV voltage regulators, which was a first in Turkey and this made our name well known all around the country.

Later in 1980s in order to find solution to the increasing energy shortage in our country, we started to manufacture alternators and generators. Then in 1990s by the newly popular technology of personal computers entering the Turkish market we started to invest in uninterruptible power supplies and since then; as the energy solution brand of Turkey; tuncmatik have been providing new solutions to Turkey's developing demands day by day.

Our vision is to ensure everyone's accessibility to the energy solutions and resources provided by us. Our mission is to deliver pure power to you in an uninterrupted and safe way.

With this mission we offer you the widest product family of Turkey in the field of energy with products such as,

- Uninterruptible Power Supplies
- Battery Solutions
- Regulators
- Industrial Energy Solutions
- Energy Conservation Sockets
- Solar Energy Solutions (Photovoltaic)

As **tuncmatik** our closeness to our customers enables us to understand them in a better manner.

while designing and developing our products in order to afford their demands as quickly as possible

Our values;

- Reliability
- Availability
- Quality
- Innovation
- Productivity
- Functionality
- Creativity

As Turkey's leading energy solution company, beside having 7 regional support offices and 58 technical service centres across Turkey; we also do export to more than 30 countries all over the world. We have won many awards both in domestic and international arena based on our products and designs and have been selected as the company of the year in Europe's energy and power solutions by Distree 2 years in a row, we have been repeatedly shown among the top 50 fastest growing companies in Turkey by the International Audit and Research Firm Deloitte.

As the **tuncmatik** team, we thank you for your support and trust in us.

We continue to work to offer you the best quality products with the strength and confidence we receive from you,

Loves and respects,

Mehmet ÖZER
Chairman

tuncmatik

PROFESSIONAL
Energy Solutions



1/1

Newtech Pro II LED 1/2/3 kVA	01
Newtech Pro II X9 LCD 1/2/3 kVA	03
Power Up X9 6/10 kVA	05
Power Up Rack Tower 1/2/3 kVA	07
Power Up Rack Tower 6/10 kVA	09
Long 1/2/3/6/10 kVA	11
X-Long One 5 kVA	13
Solartech One 5 kVA	13

3/1

Newtech Pro X9 DSP 10/20/30 kVA	15
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3/3

E Serisi 40/60/80/125/160/225/250 kVA	17
Ultra One 10/15/20/30/40 kVA	19
Ultra One 60/80/100/120/160/200 kVA	21
Ultra One 300/400/500/600 kVA	23
Modultech 30/1560 kVA	25

Multi Phase

Modulin 10 kVA	26
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tuncmatik

NEWTECH PRO II LED

1/2/3 kVA

ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

High output power factor (PF=0.8)

The UPS provides 14% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

NEWTECH PRO II LED 1 kVA (1/1)		NEWTECH PRO II LED 2 kVA (1/1)		NEWTECH PRO II LED 3 kVA (1/1)	
KAPASİTE / CAPACITY		KAPASİTE / CAPACITY		KAPASİTE / CAPACITY	
3 PC	3 MONITOR	6 PC	6 MONITOR	9 PC	9 MONITOR
1 PRINTER	1 PC 30 dk/min Yaklaşık / approx.	2 PRINTER	2 PC 30 dk/min Yaklaşık / approx.	3 PRINTER	3 PC 30 dk/min Yaklaşık / approx.



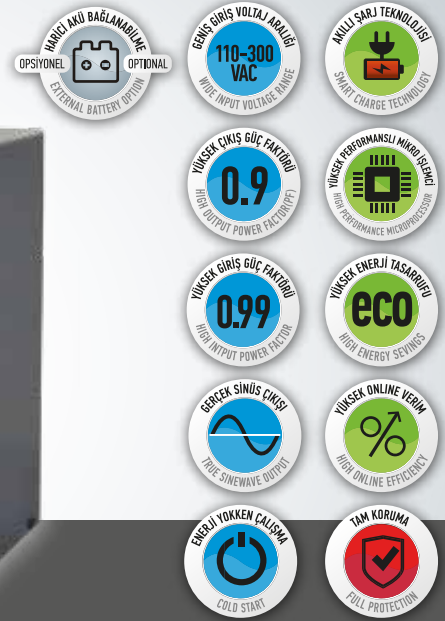
- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- ECO Mode
- High Energy Saving

tuncmatik
NEWTECH PRO II
LED
1/2/3 kVA
ONLINE UPS (1/1)



CAPACITY		1000 VA 900 W	2000 VA 1800 W	3000 VA 2700 W		
INPUT						
Nominal voltage		200 / 208 / 220 / 230 / 240 VAC				
Voltage range	Low voltage transfer	%100-%80at load160 VAC ±%5, %80-%70 at load140 VAC ± %5, %70-%60 at load120 VAC ±%5, %60-%0 at load110 VAC ±%5, (<35°C)				
	Low voltage correction	%100-%80at load175 VAC ±%5, %80-%70 at load155 VAC ± %5, %70-%60 at load135 VAC ±%5, %60-%0 at load125 VAC ±%5, (<35°C)				
	High voltage transfer	300 VAC ± %5				
	High voltage correction	290 VAC ± %5				
Frequency range		40 Hz ~ 70 Hz				
Power factor		%100at load 0.990 (rated input voltage)				
Phase		Single phase + Earth				
OUTPUT						
Output Voltage		200 / 208 / 220 / 230 / 240 VAC				
Output power factor (PF)		0.8				
AC voltage regulation (Battery mode)		± %1				
Frequency Range (Synchronous mode)		47 Hz ~ 53 Hz or 57 Hz ~ 63 Hz				
Frequency Range (Battery mode)		50 Hz or 60 Hz ± 0.1 Hz				
Overload	Line Mode	%105-110 10dk then by-pass, %110-130 1dk then by-pass, %130-1 50 3sn then by-pass				
	Battery Mode	%105-110 1dk then by-pass, >%110 3sn then by-pass,				
Crest Factor		3:1 maxs.				
Harmonic distortion		≤ %3 THD (linear load) ≤ %6 THD (non-linear load)				
Transfer time	Line ↔ Battery Mode	0 msn				
	Inverter ↔ By-pass	4 msn (typical)				
Waveform (Battery mode)		Pure Sinewave				
EFFICIENCY						
Line Mode		~ %88	~ %89	~ %90		
Battery Mode		~ %83				
BATTERY						
Type & quantity	12V7AH	It depends on the capacity of the external batteries.	12V7AH	It depends on the capacity of the external batteries.	12V7AH	It depends on the capacity of the external batteries.
Battery quantity	2	2	4	4	6	6
Support time	Depends on battery capacity					
Charge voltage	27.4 VDC ± %1		54.7 VDC ± %1		82.1 VDC ± %1	
Charge current	1A		1A		1A	
INDICATORS						
LED Display	UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status					
Alarm	Line failure, Low battery, Overload, System fault					
DIMENSIONS & WEIGHT						
D x W x H (mm)	293 x 144 x 209	293 x 144 x 209	399 x 144 x 209	399 x 144 x 209	460 x 191 x 337	460 x 191 x 337
Weight (kg)	8.9	4.2	16.2	6.3	24.8	6.5
ENVIRONMENTAL						
Operation temperature	0-40 °C					
Humidity	%20-90relative humidity (non-condensing)					
Noise level	< 50 dBA, 1 meters					
SOFTWARE & MANAGEMENT						
Smart RS-232 or USB	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC					
SNMP (Optional)	Power management with SNMP manager and web browser					

tuncmatik NEWTECH PRO II X9 LCD 1/2/3 kVA ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

High output power factor (PF=0.9)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

NEWTECH PRO II X9 LCD 1 kVA (1/1)

KAPASİTE / CAPACITY

3
PC

3
MONITOR

1
PRINTER

1 PC
30 dk/min
Yaklaşık / approx.

NEWTECH PRO II X9 LCD 2 kVA (1/1)

KAPASİTE / CAPACITY

6
PC

6
MONITOR

2
PRINTER

2 PC
30 dk/min
Yaklaşık / approx.

NEWTECH PRO II X9 LCD 3 kVA (1/1)

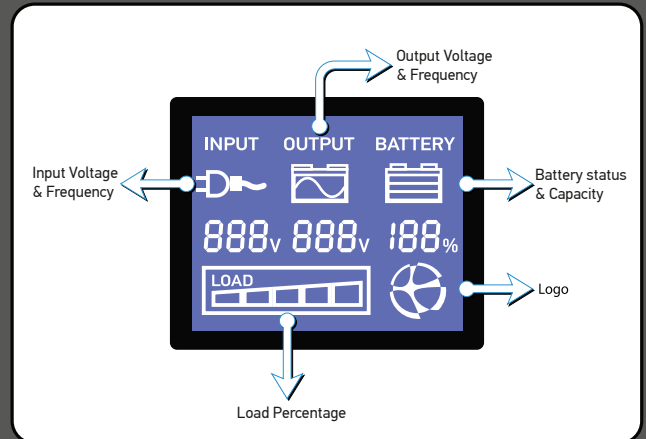
KAPASİTE / CAPACITY

9
PC

9
MONITOR

3
PRINTER

3 PC
30 dk/min
Yaklaşık / approx.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- ECO Mode
- High Energy Saving



tuncmatik NEWTECH PRO II X9 LCD 1/2/3 kVA ONLINE UPS (1/1)



CAPACITY		1000 VA 900 W		2000 VA 1800 W		3000 VA 2700 W	
INPUT							
Nominal voltage		200 / 208 / 220 / 230 / 240 VAC					
Voltage range	Low voltage transfer	%100-%80 at load 160 VAC ± %5, %80-%70 at load 140 VAC ± %5, %70-%60 at load 120 VAC ± %5, %60-%0 at load 110 VAC ± %5, (<35°C)					
	Low voltage correction	%100-%80 at load 175 VAC ± %5, %80-%70 at load 155 VAC ± %5, %70-%60 at load 135 VAC ± %5, %60-%0 at load 125 VAC ± %5, (<35°C)					
	High voltage transfer	300 VAC ± %5					
	High voltage correction	290 VAC ± %5					
Frequency range		40 Hz ~ 70 Hz					
Power factor		%100 at load 0.990 (rated input voltage)					
Bypass voltage range		Bypass high voltage point 200/208/220/230/240 VAC output models: 230-264: range can be adjusted from the LCD panel. (Default value: 264VAC) Bypass high voltage point 200/208/220/230/240 VAC output models: 170-220: range can be adjusted from the LCD panel. (Default value: 170VAC)					
Phase		Single phase + Earth					
OUTPUT							
Output Voltage		200 / 208 / 220 / 230 / 240 VAC					
Output power factor (PF)		0.9					
AC voltage regulation (Battery mode)		± %1					
Frequency Range (Synchronous mode)		47 Hz ~ 53 Hz veya 57 Hz ~ 63 Hz					
Frequency Range (Battery mode)		50 Hz or 60 Hz ± 0.1 Hz					
Overload	Line Mode	%105-110 10dk then by-pass, %110-130 1dk then by-pass, %130-150 3sn then by-pass					
	Battery Mode	%105-110 1dk then by-pass, >%110 3sn then by-pass,					
Crest Factor		3:1 maxs.					
Harmonic distortion		≤ %3 THD (linear load) ≤ %6 THD (non-linear load)					
Transfer time	Line ↔ Battery Mode	0 msn					
	Inverter ↔ By-pass	4 msn (typical)					
Waveform (Battery mode)		Pure Sinewave					
EFFICIENCY							
Line Mode		~ %88		~ %89		~ %90	
Battery Mode		~ %83					
BATTERY							
Type & quantity		12V9AH	It depends on the capacity of the external batteries.	12V9AH	It depends on the capacity of the external batteries.	12V9AH	It depends on the capacity of the external batteries.
Battery quantity		2	2	4	4	6	6
Support time		Depends on battery capacity					
Charge voltage		27.4 VDC ± %1	27.4 VDC ± %1	54.7 VDC ± %1	54.7 VDC ± %1	82.1 VDC ± %1	82.1 VDC ± %1
Charge current		1A	12A	1A	12A	1A	12A
INDICATORS							
LED Display		UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status					
Alarm		Line failure, Low battery, Overload, System fault					
DIMENSIONS & WEIGHT							
D x W x H (mm)		293 x 144 x 209	293 x 144 x 209	399 x 144 x 209	399 x 144 x 209	460 x 191 x 337	460 x 191 x 337
Weight (kg)		8.9	4.2	16.2	6.3	24.8	6.5
ENVIRONMENTAL							
Operation temperature		0-40 °C					
Humidity		%20-90 relative humidity (non-condensing)					
Noise level		< 50 dBA, 1 meters					
SOFTWARE & MANAGEMENT							
Smart RS-232 or USB		Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC					
SNMP (Optional)		Power management with SNMP manager and web browser					

tuncmatik PowerUP X9 6/10 kVA ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the line are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (120-276 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=0.9)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

High online efficiency

Thanks to its advanced technology, PowerUP X9 reaches an average efficiency level of %93 and pays of its investment cost in a short time.

Parallel structure (Optional)

PowerUP X9 UPS has the ability to parallel up to 4 units.



PowerUP X9 6 kVA	
KAPASİTE / CAPACITY	
18 PC	18 MONITOR
6 PRINTER	1 PC 30 dk/min yaklaşık / approx.

PowerUP X9 10 kVA	
KAPASİTE / CAPACITY	
30 PC	30 MONITOR
10 PRINTER	1 PC 30 dk/min yaklaşık / approx.

MULTI-FUNCTIONAL KEYS

- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- EPO - Emergency Power Off
- High Energy Saving

tuncmatik PowerUP X9

6/10 kVA

ONLINE UPS (1/1)



CAPACITY		6 kVA 5400 W	10 kVA 9000 W
INPUT			
Phase		Single phase + Neutral + Earth	
Nominal voltage		220/230/240 VAC	
Voltage range		120~276 VAC	
Frequency range		45-55 Hz de 50 Hz / 54-66 Hz de 60 Hz (automatic selection)	
Current THDi		≤%3 (%100non-linear load), ≤%5 (%100 linear load)	
Bypass voltage range		220 VAC Max.voltage: +%25 (optional +%10,+%15,+%20); 230 VAC Max. voltaj: +%20 (optional +%10,+%15) 240 VAC Max.voltage: +%15 (optional +%10) Min. voltaj: -%45 (optional -%20,-%30) Bypass Frequency Range: ±%1, ±%2, ±%4, ±%5, ±%10	
Power factor		≥ 0.99(Input THDV ≤%1)	
OUTPUT			
Phase		Single phase + Neutral + Earth	
Rated voltage		220/230/240 VAC	
Power factor		0,9	
Voltage regulation		±1.0%	
Frequency	Normal mode	Same as mains frequency	
	Battery mode	(50/60 ±0.1%) Hz	
Crest Factor		3:1	
THDi		≤%2 (%100 linear load), ≤%5 (%100 non-linear load)	
Efficiency		≥92%	
BATTERY			
Type & quantity		12V 7Ah x 16	12V 9Ah x 16
Charge current (A)		1,0 A	
Transfer time		Line →Battery: 0 msn, Line →Bypass:0 msn	
PROTECTION			
Overload	AC mode	Yük: %105-~%110 60dk ; %110-~%125 10dk ; %125-~%150 1dk ; >%150 200ms	
	Battery mode	Yük: %105-~%110 10dk ; %110-~%125 1dk ; >%125 200ms	
	Bypass mode	40 A (Fuse)	63 A (Fuse)
Over heating		Alarm	
Battery low		Alarm & Shut down	
Test		With software	
EPO (Opsional)		USB turns off immediately	
Battery		Intelligent battery management	
DIMENSIONS & WEIGHT			
D x W x H (mm)		460 x 191 x 720	
Weight (kg)		60 kg	121 kg
INDICATORS			
Status LED & LCD		Line mode, Bypass mode, Low battery, Battery fault, Overload & UPS fault	
LCD Panel		Input voltage, Input frequency, Output voltage, Output frequency, Load persantage & temperature	
Audio & Visual		Line failure, Low battery, Overload, System fault	
ENVIRONMENTAL			
Operating temperature		0°C~40°C	
Humidity		0~%95 non-condensing	
Altitude		<1500 m	
Noise level		<55 dB 1 meters	
SOFTWARE & MANAGEMENT			
Interfaces		USB, RS232, SNMP card (optional)	
STANDARD CERTIFICATES			
EMC		IEC62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5	
Security		IEC62040-1, GB4943-2005	

tuncmatik POWER UP RACK TOWER 1/2/3 kVA ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the line are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=0.9)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored. Rotatable LCD display that can be adjusted according to the horizontal or vertical use of the UPS.

POWER UP RACK TOWER 1 kVA	POWER UP RACK TOWER 2 kVA	POWER UP RACK TOWER 3 kVA
KAPASİTE / CAPACITY	KAPASİTE / CAPACITY	KAPASİTE / CAPACITY
3 PC	6 PC	9 PC
3 MONITOR	6 MONITOR	9 MONITOR
1 PRINTER	2 PRINTER	3 PRINTER
1 PC 30 dk/min yaklaşık / approx.	1 PC 30 dk/min yaklaşık / approx.	1 PC 30 dk/min yaklaşık / approx.

MULTI-FUNCTIONAL KEYS

- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- EPO - Emergency Power Off
- High Energy Saving



tuncmatik POWER UP RACK TOWER 1/2/3 kVA ONLINE UPS (1/1)



CAPACITY		1000 VA 900 W	2000 VA 1800 W	3000 VA 2700 W
INPUT				
Voltage range	Low voltage transfer	160 VAC - %80-100, 140 VAC - %70-80, 120 VAC - %60-70, 110 VAC - %0-60		
	Low voltage correction	170 VAC - %80-100, 150 VAC - %70-80, 130 VAC - %60-70, 120 VAC - %0-60		
	High voltage transfer	300 VAC ± %5		
	High voltage correction	290 VAC ± %5		
Frequency range		40 Hz ~ 70 Hz		
Phase		Single phase + Neutral + Earth		
Power factor		≥ 0.99, %100 load		
OUTPUT				
Output Voltage		208 / 220 / 230 / 240 VAC		
Output power factor (PF)		0.8		
AC voltage regulation (Battery mode)		± %1		
Frequency Range (Synchronous mode)		47 Hz ~ 53 Hz or 57 Hz ~ 63 Hz		
Frequency Range (Battery mode)		50 Hz ± 0.2 Hz or 60 Hz ± 0.2 Hz		
Overload	Line Mode	%105-110 aşırı yük alarmı, %110-130 30sn sonra by-pass, %130-150 1,5sn sonra by-pass		
	Battery Mode	%105-110 aşırı yük alarmı, %110-130 30sn sonra kapanır, %130-150 1,5sn sonra kapanır		
Crest Factor		3:1 maks		
Harmonic distortion		≤ %2 THD (linear load) ≤ %8 THD (non-linear load)		
Transfer time	Line ↔ Battery Mode	0 msn		
	Inverter ↔ By-pass	4 msn (typical)		
Waveform (Battery mode)		Pure Sinewave		
EFFICIENCY				
Line Mode		~ %86	~ %86	~ %88
Battery Mode		~ %83	~ %85	~ %86
BATTERY				
Type & quantity		12V 9Ah x 2	12V 9Ah x 4	12V 9Ah x 6
Support time		Up to 90% capacity 5 hours (typical)		
Charge voltage		1.0 A		
Charge current		27.4 VDC ± %1	54.8 VDC ± %1	82.1 VDC ± %1
INDICATORS				
LED Display		UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status		
Alarm		Line failure, Low battery, Overload, System fault		
DIMENSIONS & WEIGHT				
D x W x H (mm)		415 x 440 x 89 [2U]	515 x 440 x 89 [2U]	635 x 440 x 89 [2U]
Weight (kg)		13.2	20.6	29
ENVIRONMENTAL				
Operation temperature		0-40 °C		
Humidity		%20-90 relative humidity (non-condensing)		
Noise level		< 50 dBA, From 1 meter		
SOFTWARE & MANAGEMENT				
Smart RS-232 or USB		Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC		
SNMP (Optional)		Power management with SNMP manager and web browser		
EPO (Optional)		UPS immediatly shuts down		

UNINTERRUPTIBLE POWER SUPPLIES



tuncmatik POWER UP RACK TOWER 6/10 kVA ONLINE UPS (1/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=0.9)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.

**POWER UP
RACK TOWER 6 kVA**

KAPASİTE / CAPACITY

18 PC	18 MONITOR
6 PRINTER	1 PC 30 dk/min yaklaşık / approx.

**POWER UP
RACK TOWER 10 kVA**

KAPASİTE / CAPACITY

30 PC	30 MONITOR
10 PRINTER	1 PC 30 dk/min yaklaşık / approx.

MULTI-FUNCTIONAL KEYS

- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- EPO - Emergency Power Off
- High Energy Saving



tuncmatik POWER UP RACK TOWER 6/10 kVA ONLINE UPS (1/1)



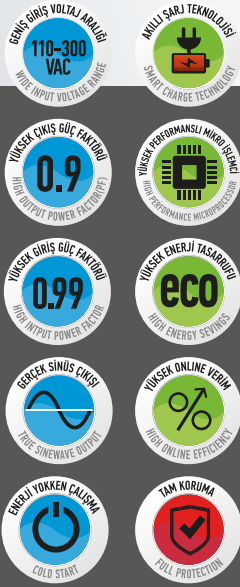
CAPACITY		6000 VA 5400 W	10000 VA 9000 W
INPUT			
Voltage range	Low voltage transfer	176 VAC - %100 yükte, 110 VAC - %50 yükte	
	Low voltage correction	186 VAC - %100 yükte, 120 VAC - %50 yükte	
	High voltage transfer	300 VAC \pm %5	
	High voltage correction	290 VAC \pm %5	
Frequency range		For 50Hz system 46 Hz~54 Hz, For 60 Hz system 56 Hz~64 Hz	
Power factor		\geq 0.9 , %100 load	
Phase		Single phase + Neutral + Earth	
OUTPUT			
Output Voltage		208 / 220 / 230 / 240 VAC	
Output power factor (PF)		0.8	
AC voltage regulation (Battery mode)		\pm %1	
Frequency Range (Synchronous mode)		50 Hz için 46 Hz ~ 54 Hz / 60 Hz için 56 Hz ~ 64 Hz	
Frequency Range (Battery mode)		50 Hz \pm 0.2 Hz or 60 Hz \pm 0.2 Hz	
Overload	Line Mode	%105-110 10dk then by-pass, %110-130 1dk then by-pass, %130-1 50 3sn then by-pass	
	Battery Mode	%105-110 1dk then by-pass, >%110 3sn then by-pass,	
Crest Factor		3:1 maxs	
Harmonic distortion		\leq %3 THD (linear load) \leq %6 THD (non-linear load)	
Transfer time	Line \leftrightarrow Battery Mode	0 msn	
	Inverter \leftrightarrow By-pass	4 msn (typical)	
Waveform (Battery mode)		Pure Sinewave	
EFFICIENCY			
Line Mode		~ %89	
Battery Mode		~ %88	
BATTERY			
Type & quantity		12V 7Ah x 20	12V 9Ah x 20
Support time		90% capacity up to 5 hours (typical)	
Charge voltage		1.0 A	
Charge current		273 VDC \pm %1	
INDICATORS			
LED Display		UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status	
Alarm		Line failure, Low battery, Overload, System fault	
DIMENSIONS & WEIGHT			
D x W x H (mm)		UPS: 580 x 438 x 133 [3U] Battery Module: 580 x 438 x 133 [3U]	UPS: 668 x 438 x 133 [3U] Battery Module: 668 x 438 x 133 [3U]
Weight (kg)		UPS: 17 Battery Module: 57	UPS: 20 Battery Module: 63
Weight (kg)		13.2	29
ENVIRONMENTAL			
Operation temperature		0-40 °C	
Humidity		%20-90 relative humidity (non-condensing)	
Noise level		<55dBA, From 1meter	<58dBA, From 1meter
SOFTWARE & MANAGEMENT			
Smart RS-232 or USB		Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC	
SNMP (Optional)		SNMP yöneticisi ve web tarayıcı ile güç yönetimi	
EPO (Optional)		UPS immediatly shuts down	

tuncmatik

LONG

1/2/3/6/10 kVA

ONLINE UPS (1/1)



Special design for applications requiring long support time

Long series, which can be connected to a large-capacity external battery for a long support time, has a much stronger charging capacity than normal products.

True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the line are filtered by the online UPS and your sensitive devices are fed with pure power.

High output power factor

(1/2/3kVA PF=0.9; 6/10kVA PF=0.9)

The 1/2/3 kVA UPS provides 15% and the 6/10 kVA UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board is provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

tuncmatik LONG 1/2/3/6/10 kVA ONLINE UPS (1/1)



MODEL		1 kVA	2 kVA	3 kVA	6 kVA	10 kVA
Phase		Single phase + earth				
Capacity (VA/Watts)		1000VA / 800W	2000VA / 1600W	3000VA / 2400W	6000VA/5400W	10000VA/9000W
INPUT						
Nominal voltage		200/208/220/230/240VAC			208/220/230/240VAC	
Voltage Range	Low voltage transfer	160Vac±5% @100%-80% load; 140Vac±5% @80%-70% load; 120Vac±5% @70%-60% load; 110Vac±5% @60%-0% load; (<35°C)			120~276Vac	
	Under voltage correction	175Vac±5% @100%-80% load; 155Vac±5% @80%-70% load; 135Vac±5% @70%-60% load; 125Vac±5% @60%-0% load; (<35°C)				
	High voltage transfer	300Vac ±5%			276Vac ±5% 320Vac, 1 hour (static)	
	High voltage correction	290Vac ±5%			276Vac ±5%	
Frequency range		40-70Hz			45-65Hz	
Power Factor		0.990 @100% load (Nominal input voltage)				
Feeding From Generator		Yes				
OUTPUT						
Output voltage		200/208/220/230/240Vac			208/220/230/240Vac	
Power Factor		0.8			0.9	
Voltage Regulation		±1% (Battery Mode)				
Frequency Range	Line Mode (synchronized)	47-53Hz veya 57-63Hz				
	Battery Mode	(50/60±0.1)Hz				
Crest Factor		3:1				
Harmonic Distortion (THDv)		≤3% THD linear load ≤6% THD non-linear load			≤2% THD linear load ≤5% THD non-linear load	
Waveflow		Pure Sinewave				
Transfer Time	AC mode ↔ Bat. mode	Zero				
	Inverter ↔ bypass	4ms (Typical)				
Efficiency		>88% (AC mode) >83% (DC mode)	>89% (AC mode) >87% (DC mode)	>90% (AC mode) >88% (DC mode)	>90% (AC mode) >88% (DC mode)	
BATTERY						
Battery Quantity		2	4	6	16/18/20 pcs adjustable	
Charge Voltage		27.4 VDC ±1%	54.7 VDC ±1%	82.1 VDC ±1%	219/246/274 Vdc ±1%	
Charge Current		12A	12A	12A	6A	6A
SYSTEM FEATURES						
Overload	Line Mode	Ambient temperature.<35°C 105%-110%: KGK 10 minutes later transfers the load to the bypass. 110%-130%: KGK 1 minutes later transfers the load to the bypass. >130%: KGK 3 seconds later transfers the load to the bypass.				
	Bypass Mode	8A(Input Fuse)	16A(Input Fuse)	25A(Input Fuse)	50A(Input Fuse)	100A(Input Fuse)
Protection		IP20				
EPO (Optional)		UPS shuts down				
Audio & Visual Alarms		Line failure, Battery low, Overload, System fault				
Communication Interface		USB(or RS232), SNMP adapter(optional), Relay board (optional)				
ENVIRONMENTAL						
Operation Temperature		0°C ~40°C				
Storage Temperature		-25°C ~55°C				
Humidity		20-90 RH @ 0- 40°C (non-condensing)				
Altitude		< 1500m				
Noise Level		< 50dBA 1 from meter			< 55dBA 1 from meter	
DIMENSION & WEIGHT						
DxWxH (mm)		293*144*209	399*144*209	399*144*209	355*191*330	415*191*330
Weight (kg)		4.2	6.3	6.5	10	12
STANDARDS						
Safety		IEC/EN62040-1,IEC/EN60950-1				IEC62040-1, GB4943
Electro Magnetic Compatibility		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8				IEC62040-2, IEC60664-1 1.2/50uS+8/20uS 6kV/3kA karşılınır

tuncmatik

X-LONG ONE

5 kVA

ONLINE UPS (1/1)



tuncmatik

SOLARTECH ONE

5 kVA

SOLAR UPS (1/1)



X-LONG ONE

3 phase working capability by connecting 3 products together, easy and fast charging ability by 60A strong battery charge capacity

Solartech ONE

Ability to use solar power and directly connectable with solar panels. Built-in 80A MPPT solar charger, easy and fast charging ability by 60 A strong battery charge capacity

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-280 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=1)

The UPS provides 43% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Parallel function (optional)

Parallel operation in single phase with up to 9 units. The maximum supported output power is 45kW/45kVA.

Generator Function

Capability to generator power.

tuncmatik
X-LONG ONE
5 kVA
ONLINE UPS (1/1)

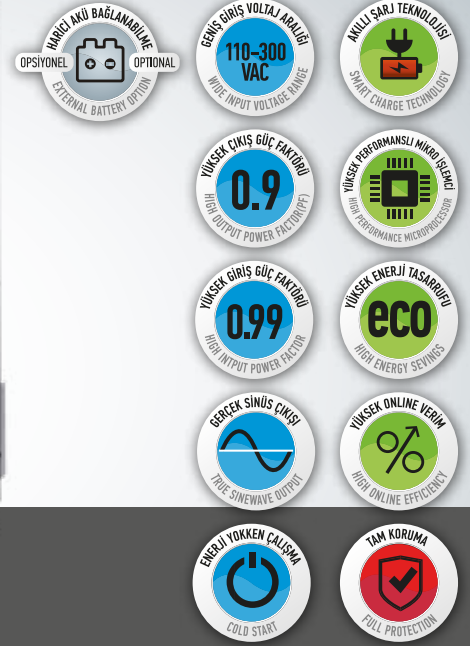


tuncmatik
SOLARTECH ONE
5 kVA
SOLAR UPS (1/1)



CAPACITY	5 kVA 5000 W	5 kVA 5000 W
INPUT		
Voltage range	110-280 VAC	
Frequency range	For 50Hz system 46 Hz~54 Hz, For 60 Hz system 56 Hz~64 Hz	
Phase	Single phase + Neutral + Earth	
Power factor	≥ 0.9 , %100 load	
OUTPUT		
Output Voltage	220 / 230 / 240 VAC	
Output power factor (PF)	1	
AC voltage regulation (Battery mode)	± %1	± %5
Frequency Range (Synchronous mode)	For 50Hz system 46 Hz~54 Hz, For 60 Hz system 56 Hz~64 Hz	
Frequency Range (Battery mode)	50 Hz or 60 Hz ± 0.1 Hz	
Overload	Line Mode	%105-110 10min then by-pass, %110-130 1min then by-pass, %130-150 3sec then by-pass
	Battery Mode	%105-110 1min then by-pass, >%110 3 sec then by-pass
Crest Factor	3:1 maks	
Harmonic distortion	≤ %3 THD (linear load) ≤ %6 THD (non-linear load)	
Transfer time	Line ↔ Battery Mode	0 msn
	Inverter ↔ By-pass	4 msn (typical)
Waveform (Battery mode)	Pure Sinewave	
EFFICIENCY		
Line Mode	~ % 93	
ECO Mode	~ % 99.5	~ % 99
Battery Mode	~ % 91	~ % 90
BATTERY		
Battery voltage	48 VDC	
Battery charge voltage	54.6 VDC	54 VDC
Overload protection	66 VDC	
Charge current	60A	60A
MPPT SOLAR CHARGER & AC CHARGER		
Max. PV	-	4000 W
MPPT range	-	60-115 VDC
Max. PV	-	145 VDC
Max. solar charge current	-	80A
INDICATORS		
LED Display	UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status	
Alarm	Line failure, Low battery, Overload, System fault	
DIMENSIONS & WEIGHT		
D x W x H (mm)	465x190x318 Battery Module: 580 x 438 x 133 [3U]	465x190x336 Battery Module: 668 x 438 x 133 [3U]
Weight (kg)	15.5	16
ENVIRONMENTAL		
Operation temperature	0-50° C	-10-50 C
Humidity	%0-95 relative humidity (non-condensing)	%5-95 relative humidity (non-condensing)
Noise level	<55dBA, From 1meter	<55dBA, From 1meter
SOFTWARE & MANAGEMENT		
Smart RS-232 or USB	Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC	
SNMP (Optional)	Power management with SNMP manager and web browser	
EPO (Optional)	UPS immediatly shuts down	

tuncmatik NEWTECH PRO X9 DSP 10/20/30 kVA ONLINE UPS (3/1)



True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (110-300 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=0.9)

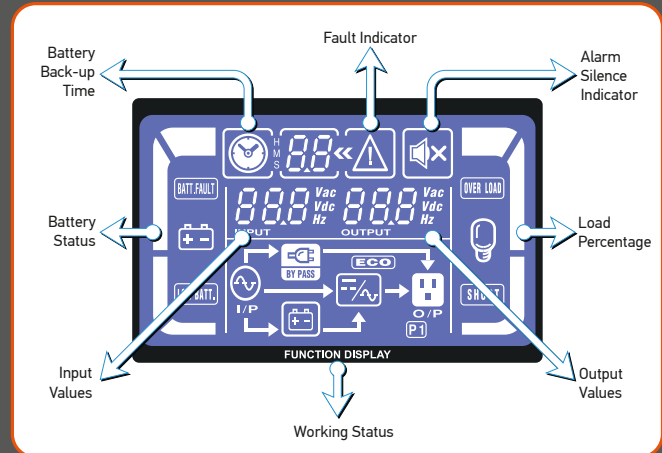
The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



MULTI-FUNCTIONAL KEYS

- 208/220/230/240 VAC Output Voltage Setting
- 50/60 Hz Frequency Converter Mode
- EPO - Emergency Power Off
- High Energy Saving

NEWTECH PRO X9 DSP 10 kVA (3/1)		NEWTECH PRO X9 DSP 20 kVA (3/1)		NEWTECH PRO X9 DSP 30 kVA (3/1)	
KAPASİTE / CAPACITY		KAPASİTE / CAPACITY		KAPASİTE / CAPACITY	
30 PC	30 MONITOR	60 PC	60 MONITOR	90 PC	90 MONITOR
10 PRINTER	1 PC 30 dk/min yaklaşık / approx.	20 PRINTER	1 PC 30 dk/min yaklaşık / approx.	60 PRINTER	1 PC 30 dk/min yaklaşık / approx.



tuncmatik NEWTECH PRO X9 DSP 10/20/30 kVA ONLINE UPS (3/1)



CAPACITY		10 kVA 9000 W	20 kVA 18000 W	30 kVA 27000 W
INPUT				
Voltage range	Low voltage transfer	%50 load 110 VAC ± %3, %100 load 176 VAC ± %3		
	Low voltage correction	%50 load 120 VAC ± %3, %100 load 186 VAC ± %3		
	High voltage transfer	300 VAC ± %5		
	High voltage correction	290 VAC ± %5		
Frequency range		For 50Hz system 46 Hz~54 Hz, For 60 Hz system 56 Hz~64 Hz		
Power factor		%100 at load 0.990 (rated input voltage)		
Phase		Three Phase + Neutral + Earth		
OUTPUT				
Phase		Single Phase + Neutral + Earth		
Output Voltage		200 / 208 / 220 / 230 / 240 VAC		
Output power factor (PF)		0.9		
AC voltage regulation (Battery mode)		± %1		
Frequency Range (Synchronous mode)		For 50Hz system 46 Hz~54 Hz, For 60 Hz system 56 Hz~64 Hz		
Frequency Range (Battery mode)		50 Hz or 60 Hz ± 0.1 Hz		
Overload	Line Mode	%100 ~ %110 : 10 min, %110 ~ %130 : 1 min, > %130 : 1 sec		
	Battery Mode	%100 ~ %110 : 30 sec, %110 ~ %130 : 10 sec, > %130 : 1 sec		
Crest Factor		3:1 maxs.		
Harmonic distortion		≤ %2 THD (linear load) ≤ %5 THD (non-linear load)		
Transfer time	Line ↔ Battery Mode	0 msn		
	Inverter ↔ By-pass	0 msn		
EFFICIENCY				
Line Mode		%91.5	%91.8	%92.1
Battery Mode		%87	%88	%89
BATTERY				
Standard Model	Type & Quantity	12V 9Ah x 20	12V 9Ah x 40	12V 9Ah x 60
	Charge time	5 hours up to 90% capacity		
	Charge current	1.0 A ± %10 maks.	2.0 A ± %10 maks.	4.0 A ± %10 maks.
	Charge voltage	273 VDC ± %1		
Long Run Model	Type & Quantity	Type: Depends on the applications - 18-20 peice		
	Charge time	It depends on the capacity of the external batteries.		
	Charge current	4.0 A ± %10 maks.	8.0 A ± %10 maks.	12.0 A ± %10 maks.
	Charge voltage	286 VDC ± %1		
INDICATORS				
LED Display		UPS status, Load level, Battery Level, Input/Output voltage, Discharge counter, Error status		
Alarm		Line fault, Low battery, Overload, System fault		
DIMENSIONS & WEIGHT				
Standard Model	D x W x H (mm)	592 x 250 x 576	815 x 250 x 826	815x300x1000
	Weight (kg)	83	164	234
Long Run Model	D x W x H (mm)	592x250x576	592x250x576	815x250x826
	Weight (kg)	26	40	64
ENVIRONMENTAL				
Working temperature		0-40 °C		
Humidity		%20-95 relative humidity (non-condensing)		
Noise level		< 58 dBA, 1 meters	< 60 dBA, 1 meters	< 65 dBA, 1 meters
SOFTWARE & MANAGEMENT				
Smart RS-232 or USB		Windows® 98/2000/2003/XP/Vista/2008, Windows® 7/8, Linux, MAC		
SNMP (Optional)		Power management with SNMP manager and web browser		
EPO (Optional)		UPS immediately shuts down		

tuncmatik E-SERIES

40/60/80/125/160/225/250 kVA

ONLINE UPS (3/3)

- Double loop on-line design
- Coloured, Touch screen LCD Display (5-7")
- Ability to warn by voice
- Pure sinewave output
- Hi-tech design with DSP technology
- Output power factor 0.8
- Front access for easy maintenance
- Fast service and extra security with internal modular structure
- Active power correction in each phase
- Generator compatible
- Parallelizable up to 4 devices with common batteries
- EPO Function
- Technology to work between 32-40 batteries



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



tuncmatik E-SERIES

40/60/80/125/160/225/250 kVA

ONLINE UPS (3/3)



MODEL	40 KL	60 KL	80 KL	125 KL	160 KL	225KL	250 KL	
Capacity	40KVA / 32KW	60KVA / 48KW	80KVA / 64KW	125KVA / 100KW	160KVA / 128KW	225KVA / 180KW	250KVA / 200KW	
Parallel structure	up to 4							
INPUT								
Nominal Voltage	3 x 360/380/400/415 VAC (3Ph+N)							
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ 100% load							
Frequency Range	40~70 Hz							
Power Factor	≥ 0.99 100% load							
Harmonic distortion (THDi)	< 4% lineer full load							
OUTPUT								
Output Voltage	3 x 360*/380*/400/415 VAC (3Ph+N)							
AC Voltage Regulation (Batory Mode)	± 1%							
Frequency Range (Synchronous)	46~54Hz or 56~64Hz							
Frequency Range (Battery Modu)	50/60 Hz ± 1%							
Crest Factor	3:1 (max.)							
Harmonic Distortion	≥ 2% THD (Lineer Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	Zero						
Waveform (Battery Modu)	Full sine wave							
Overload Capacity	100-110% 10 minute, 111-130% 1 minute, >130% 1s shut down							
BYPASS								
Nominal Voltage	3 x 360/380/400/415 VAC (3Ph+N)							
Voltage Range	305VAC~457VAC							
Frequency Range (Synchronous)	46~54Hz or 56~64Hz							
Overload Capacity	> 130% 1 minute (typical)							
EFFICIENCY								
AC Mode	95,5%							
ECO Mode	98,5%							
Battery Mode	94,5%							
BATTERY								
Battery (VRLA AGM)	2x32 12V9Ah (Internal)	External Battery Pack						
Number of Batteries	32-40 peice (adjustable)							
Charge current (max.)	1-12A, adjustable	1-18A, adjustable	2-36A, adjustable		3-54A, adjustable			
Charge Voltage	+/-13.65V*N (N = 16~20)							
DIMENSION & WEIGHT								
DxWxH (mm)	815 x 300 x 1000			974 x 600 x 1600				
Weight(kg)	74	85	87	241	286	286	382	
ENVIRONMENTAL								
Operating Temperature	0-40°C							
Humidity	<95% ve non-condensing							
Altitude**	0 ~ 1000m tfull load							
Noise Level	<65 dB @ 1 Metre	<70 dB @ 1 Metre			<75 dB @ 1 Metre			
SOFTWARE & MANAGEMENT								
Smart RS-232/USB	Windows, Linux ve MAC support							
SNMP (Optional)	Power management via web browser or SNMP manager							
EPO (Optional)	UPS immediatly shuts down							

*When the Output Voltage is set to 3 x 360VAC or 3 x 380VAC, the output power will be reduced to 90%.

**When the uninterruptible power supply is operated at a higher altitude than the maximum altitude, the output power will decrease by 1% for every 100 m altitude

Tuncmatik AS. reserves the right to make changes in product specifications without prior notice.

tuncmatik

ULTRA ONE

10/15/20/30/40 kVA

ONLINE UPS (3/3)

ULTRA ONE

True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (305-478 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=1)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

Capacity up to 40kVA in compact structure

It allows high-power devices to be placed in tight spaces such as server rooms.



High online efficiency

Thanks to its advanced technology, PowerUP X9 reaches an average efficiency level of %93 and pays of its investment cost in a short time.

Parallel structure (Optional)

PowerUP X9 UPS has the ability to parallel up to 4 units. A communication cable is sufficient for this.

Generator compatibility

By facilitating power transition from generator to load, it allows you to use generator with lower capacity.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



tuncmatik ULTRA ONE 10/15/20/30/40 kVA ONLINE UPS (3/3)



MODEL		10 kVA	15 kVA	20 kVA	30 kVA	40 kVA
CAPACITY (kVA/kW)		10	15	20	30	40
INPUT						
Nominal voltage		380/400/415Vac, (3Ph+N+PE)				
Input voltage range		305~478Vac (Full Load); 208~478Vac (50% Load)				
Frequency		40Hz-70Hz				
Power factor		≥0.99				
THDi		≤3% (100% nonlinear load)				
Bypass voltage range		220Vac Max.voltage: +25%(optional +10%,+15%,+20%) 230Vac Max.voltage: +20%(optional +10%,+15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%,-30%)				
Bypass Synchronization		±1%/±2%/±4%/±5%/±10% optional (default:±10%)				
Generator Input		Support				
OUTPUT						
Power factor		0.9/1.0				
Nominal AC Voltage		380/400/415Vac, (3Ph+N+PE)				
Voltage Regulation		±1%				
Transient Voltage Response		±5% (linear load)				
Frequency		1.Line Mode: synchronize with input; when input frequency >±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz				
Crest factor		3:1				
Harmonic distortion (THDv)		< 2% (linear load), <5% (non linear load)				
Overload Capacity	AC Mode	Load≤110%: last 60min change to bypass, ≤125%: last 10min, change to bypass, ≤150%: last 1min change to bypass, >150% change to bypass immediately				
	Battery Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, > 150% shut down UPS immediately				
Efficiency	Normal Mode	Up to 93.5%	Up to 94.5%			
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms				
BATTERY						
Battery voltage	Standard unit	±120Vdc (20pcs 12V9AH); (2x20pcs 12V9AH optional)	±120Vdc (2x20pcs 12V9AH)	±120Vdc (3x20pcs 12V9AH)	±180Vdc (2x30pcs 12V9AH)	
	Long run unit	10-30kVA: ±96/108/120Vdc; battery quantity (16~20 pcs, 16 pcs define, Standard unit and 20 pcs no power derating; 18 pcs output power factor 0.8/0.9; 16 pcs output power factor 0.7/0.8;)				
Charge Current(A) (charge current can be set according to battery capacity installed)		Standard unit: 1.35A (2.7A optional); Long run unit: Max. current 14A (limited by input current)	Standard unit: 2.7A; Long run unit: Max. current 16A (limited by input current)	Standard unit: 2.7A; Long run unit: Max. current 18A (limited by input current)	Standard unit: 4.05A; Long run unit: Max. current 20A (limited by input current)	Standard unit: 2.7A; Long run unit: Max. current 20A (limited by input current)
SYSTEM FEATURE						
Alarms		overload, utility abnormal, UPS fault, battery low, etc.				
Protection		short circuit, overload, over temperature, battery low, fan fault alarm, EPO (optional)				
Communication Interface		USB, RS232,RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (optional), Relay card (optional),Battery temperature sensor(optional)				
ENVIRONMENTAL						
Operating Temperature		0°C~40°C				
Storage Temperature		-25°C~55°C(no battery)				
Humidity		0~95% non condensing				
Acoustical Noise (from 1M distance)		<55dB	<58dB	<61dB	<64dB	
Altitude		< 1500m.When>1500m,lower the rated power for use				
DIMENSIONS & WEIGHT						
WxDxH (mm)		Standard unit : 250x900x868 Long run unit : 250x580x655				
Weight (kg)		129/35	186/39	187/40	236/43	239/46
STANDARDS						
Safety certifications		IEC/EN62040-1,IEC/EN60950-1				
EMC		CE, IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8				

tuncmatik

ULTRA ONE

60/80/100/120/160/200 kVA

ONLINE UPS (3/3)

ULTRA ONE

True double conversion online technology

Online UPS is the most suitable choice, especially for computers and other sensitive devices. This type of UPS completely isolates your sensitive devices from the mains and feeds your sensitive devices connected with the help of filters in the mains. As a result, all unwanted situations that may occur in the network are filtered by the online UPS and your sensitive devices are fed with pure power.

Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your medical and similar critical applications.

Wide input voltage range (305-478 VAC)

Ability to work online even at very low and very high voltages without switching to the battery.

Input power factor correction (PF=0.99)

It does not impose an additional compensation load on your line. It saves on your electricity bills.

High output power factor (PF=1)

The UPS provides 28% extra power at the output compared to the standard UPS which are 0.7 power factor. That's why, it supports more electrical/electronics devices.

Intelligent charging technology for optimal battery performance

Since it charges the battery with a special charging technique, it extends the life of the battery, reduces your operating costs and provides savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board it provides full protection by performing the protection functions of the UPS such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the UPS has a stable and reliable structure.

Capacity up to 200kVA in compact structure

It allows high-power devices to be placed in tight spaces such as server rooms.



High online efficiency

Thanks to its advanced technology, PowerUP X9 reaches an average efficiency level of %93 and pays of its investment cost in a short time.

Parallel structure (Optional)

PowerUP X9 UPS has the ability to parallel up to 6 units. A communication cable is sufficient for this.

Generator compatibility

By facilitating power transition from generator to load, it allows you to use generator with lower capacity.



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



tuncmatik

ULTRA ONE

60/80/100/120/160/200 kVA

ONLINE UPS (3/3)



MODEL	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA
CAPACITY (kVA/kW)	60	80	100	120	160	200
INPUT						
Rated voltage	380/400/415 VAC					
Voltage range	138-485 VAC					
Frequency range	40 Hz-70 Hz					
Power factor	≥ 0.99					
Current THDi	≤3% (100% non-linear load)					
Bypass voltage range	Max.voltage: 220 VAC:+25 % (optional +10%, +15%, +20%); 230 VAC:+20 % (optional+10%, +15%); 240 VAC:+15 % (optional+10%); Min. voltage:-45 % (optional-10%, -20%, -30%) Frequency Protection Range: ±10%					
Generator input	Supports					
OUTPUT						
Rated voltage	380/400/415 VAC					
Power factor	1					
Voltage regulation	±1%					
Frequency	1.Line Mode: sync with login; input frequency > ±% 10 when (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz					
Crest Factor	3:1					
THDv	≤2% linear load ≤4% non-linear load					
Efficiency	95%					
Transfer time	Normal to battery: 0ms; Normal to bypass: 0ms					
Overload	AC Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.				
	Battery Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.				
	By-pass Mode	Temperature ≤30 °C, load ≤ 135%: works for a long time / Temperature ≤ 40 °C, load ≤ 125% works for a long time / 1000% load: runs up to 100ms				
BATTERY						
Voltage	Optional Voltage: ±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/ 34/36/38/40/42/44/46/48/50 peice optional) 360Vdc~600Vdc (30~50 peice, 30 peice defined, 32 ve 50 peice without power loss; 30 peice output power factor 0.8)					
Charge current (A) adjustable according to battery capacity	20A		40A		60A	
SYSTEM FEATURES						
Alarm	Overload, Line abnormal, UPS fault, Low battery, etc.					
EPO (Optional)	UPS shuts down					
Protection	Short circuit, Overload, Over temperature, Undercurrent, Fan fault alarm					
Comunication	USB, RS232, RS485, Parallel port, REPO port, LBS port, Backfeed port, Intelligent slot, SNMP card (optional), Relay board (optional)					
Status LED & LCD	Line mode, Bypass mode, Battery low, Battery faulty, Overload & UPS failure					
LCD Panel	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage					
DIMENSIONS & WEIGHT						
D x W x H (mm)	600 x 850 x 1600		600 x 850 x 2000		1200 x 850 x 2000	
Weight (kg)	398		537		794	
ENVIRONMENTAL						
Operating temperature	0-40°C					
Humidity	0-95% relative humidity (non-condensing)					
Noise level	<70dB		<71dB		<72dB	<73dB
Storage temperature	-25°C~55°C (without battery)					
Altitude	<1500m. > when 1500m, reduce the rated power for use					
SOFTWARE & MANAGEMENT						
Operating Systems	Muser 5000: Windows 10 64 bit					
Interfaces	CAN, RS485, FE, LBS, Parallel, relay card, SNMP card (optional)					
STANDARDS						
EMC	IEC/EN62040-3,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8					
Safety	CE,EN/IEC 62040-3,EN/IEC 62040-1-1					

tuncmatik ULTRA ONE

300/400/500/600 kVA

ONLINE UPS (3/3)



ULTRA ONE

Ultra silent, Ultra compact, Ultra easy maintenance

In the logic of a modular UPS, with a modular design and can continue to operate partially with a missing module, our ultra quiet and compact Ultra series UPSs, offers unique ease of use to our valued customers.

Transformase-free structure

The use of transformase-free technology results in a significant reduction in the volumes and weights of the devices. Also the device provides improvements in important coefficients such as the ratio between the power of the device and the area it occupies. Since there is no transformer at the inverter outputs of transformerless UPSs, the electrical power loss of the device decreases and the efficiency of the device increases. This increase in efficiency reduces electricity costs. In addition, there is a reduction in acoustic noise level in transformerless UPSs. Since the DC intermediate circuit voltage is low in conventional UPSs, the increase in the UPS output voltage to the voltage level to be applied to the load is only achieved by using a step-up transformer at the inverter output; in transformerless UPSs, since the DC intermediate circuit voltage is already high enough, the voltage boost feature of the transformer is not needed.

Wide input voltage range

138-485 VAC. No load reduction is required when the input voltage is ≥ 305 VAC.

Power Saving

High input power factor, PF=0.99. It does not impose an additional compensation load on your main. It saves on your electricity bill.

High output power factor

Output power factor PF=1. UPS can power 100% unbalanced load. High adaptability for load, full inductive load or full capacitive load can be connected.



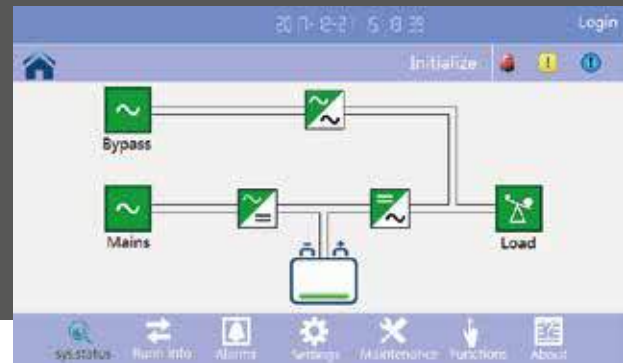
Parallel structure (Optional)

Ability to parallel up to 6 units, to achieve power redundancy, without the need for additional investment costs. A communication cable is sufficient for this.

Generator compatibility

By facilitating power transition from generator to load, it allows you to use generator with lower capacity.

COLOURED LCD DISPLAY



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



tuncmatik
ULTRA ONE
300/400/500/600 kVA
ONLINE UPS (3/3)



CAPACITY	300 kVA 300 kW	400 kVA 400 kW	500 kVA 500 kW	600 kVA 600 kW
INPUT				
Phase	Three Phase+Neutral+Earth			
Rated voltage	380/400/415 VAC			
Voltage range	138~485 VAC			
Frequency range	40 Hz-70 Hz			
Current THDi	≤3% (100% non-linear load)			
Bypass voltage range	Max.voltage: 220 VAC:+25% (optional +10%, +15%, +20%); 230 VAC:+20% (optional +10%, +15%); 240 VAC:+15% (optional +10%); Min. voltage:-45% (optional -10%, -20%, -30%) Frequency Protection Range: ±10%			
Power factor	≥ 0,99			
OUTPUT				
Rated voltage	380/400/415 VAC			
Power factor	1			
Voltage regulation	±1%			
Frequency	1.Line Mode: sync with login; input frequency > ±% 10 when (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz			
Crest Factor	3:1			
THDi	≤2% linear load ≤4% non-linear load			
Efficiency	95%			
Transfer time	Normal to battery: 0ms; Normal to bypass: 0ms			
Overload	AC Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.		
	Battery Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.		
	By-pass Mode	Temperature ≤30 °C, load ≤ 135%: works for a long time / Temperature ≤ 40 °C, load ≤ 125% works for a long time / 1000% load: runs up to 100ms		
BATTERY				
Voltage	±180V/192V/±204V/±216V / ±228V/±240/±252/±264/±276/±288/±300 VDC (30/32/34/36/38/40/42/44/46/48/50 peice optional) 360 VDC~600 VDC (30~50 piece, 40 piece defined; 30 adet çıkış güç faktörü 0.8)			
Charge current (A) adjustable according to battery capacity	100 A	120 A	160 A	180 A
SYSTEM FEATURES				
Status LED & LCD	Mains mdu, Bypass mode, Battery low, Battery faulty, Overload & UPS failure			
LCD Panel	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage			
Audio & Visual	Line failure, Low battery, Overload, System fault			
EPO (Opsional)	UPS shuts down			
DIMENSIONS & WEIGHT				
D x W x H (mm)	600 x 850 x 1600	600 x 850 x 2000	1200 x 850 x 2000	
Weight (kg)	398	537	794	
ENVIRONMENTAL				
Operating temperature	0~40°C			
Humidity	0-95% relative humidity (non-condensing)			
Noise level	<70dB	<71dB	<72dB	<73dB
Storage temperature	-25°C~55°C (without battery)			
Altitude	<1500m. > when 1500m, reduce the rated power for use			
SOFTWARE & MANAGEMENT				
Operating Systems	Muser 5000: Windows 10 64 bit			
Interfaces	CAN, RS485, FE, LBS, Parallel, relay card, SNMP card (optional)			
STANDARDS				
EMC	IEC/EN62040-3,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			
Safety	CE,EN/IEC 62040-3,EN/IEC 62040-1-1			

tuncmatik MODULTECH 30/1560 kVA ONLINE UPS



UPS Kabini Kontrol Paneli

Why modular UPS

The most obvious advantage of modular UPSs is that they can reach larger powers in a smaller space. In critical applications where each square meter is extremely important and expensive, such as datacenters, UPSs should obtain maximum power in minimum areas. Modular UPSs meet this requirement. In addition, thanks to its high efficiency, it provides low energy consumption because of that the product pays itself back in a short time. It minimizes your system downtime costs thanks to its fast maintenance and repairing without stopping the system abilities.

Advantages of modular structure

- Fast installation
- Fast maintenance and repair without stoping the system
- Low maintenance cost
- Low cost capacityincreasing
- N+X redundancy
- Plug and play power modules
- Flexible scalable UPS cabinet
- Flexible scalable battery cabinet

Modular systems for capacity increase and high security

- High security N+X structure
- kVA=kW, more active power thanks to output power factor equaling 1 (possibility of connecting more loads to the same power UPS)
- Thanks to the modular structure, it grows with your business (capacity increasing ability with horizontal and vertical architecture)
- High efficiency (low energy cost)
- Easy and fast service opportunity thanks to its modular structure; hence reduced service and maintenance costs.
- Thanks to its low THDi value, it does not damage the line it is connected to and provides economy by reducing losses.
- More than one device can be fed from the same battery group.
- Full compatibility with all country conditions thanks to its wide input voltage and frequency range.



Grows with your business

The most suitable architecture for future capacity increases. For example; For a data center with a need of 240 kVA, 240kVA is obtained by using a cabinet with a capacity of 10 modules and 8 30kVA modules. There are 2 empty module slots in the cabin. As the data center load increases, 30kVA modules can be added to the cabinet to increase up to 300kVA without any additional investment.

High input power factor

Power supplies draw reactive energy as well as active energy from the line. The high reactive energy brings additional costs by increasing the losses. In MODULTECH UPS devices, as the power factor (PF) approaches 1 reactive energy consumption decreasesand these losses do not occur.

Low input current harmonics

It is the measure of how close the current to be drawn from the network fed by the power source is in sinusoidal form. It is expressed by the abbreviation THDi. This value is expected to be low in a quality power source. Currents with high harmonic values increase power losses and voltage distortions and adversely affect other loads fed from the same source. Modular UPS devices meet low harmonic expectations with <3% THDi value.

Applications

Datacenters, Hospitals, Airports, Factories, Lighting, Emergency Power Systems, Smart Buildings



tuncmatik Modulin

10 kVA Modular RT UPS

DSP technology guarantees high reliability

Digital Signal Processor (DSP) technology, digitizes data and mathematically processes it to provide an advanced solution with higher performance.

Output power factor 1.0

Modulin UPS which has 1.0 power factor for can provide high efficiency and improved performance in the critical applications.

Operation in ECO mode to save energy

Efficiency is increased by up to 97% to reduce energy use and cost thanks to ECO mode. In this mode, loads are supply directly from the mains. The UPS provides uninterrupted power to the connected device, When mains is shot down.

Generator Operation

Modulin UPS can be operating with generator for your critical loads.

Hot swappable structure for power increase, installation and maintenance

It has a patented modular design to provide power increase and maintenance flexibility. By simply unscrewing the four screws on the connector box; the power module can be easily removed from the cabinet without disconnecting all the cables. This also simplifies the maintenance and replacement process.

True Double-Conversion online technology

It has online double conversion technology to effectively protect against mains disruptions and provide longer design life.

Ability to operation in parallel with common battery packs

Compared with the general parallel system; multiple Modulin UPS can form a parallel power backup system by sharing common battery packs, which can greatly reduce the cost and achieve the same performance.

19" design suitable for use in Vertical / Horizontal cabinet

It is designed for vertical / horizontal use to increase ease of use. Thanks to its 19" rack design, it makes it easy to optimize costs in changing power demands.



Customized System			
Cabin Height	17U		
Number of Power Units	4	2	1
Number of Battery Units	0	2	3



**This customized system will be an embedded 1U central communication unit.*

tuncmatik

Modulin

10 kVA Modular RT UPS



MODEL	Modulin RT 3/3-10K	Modulin RT 3/1-10K	Modulin RT 1/1-10K
PHASE	3 Ph / 3 PH	3 Ph / 1 Ph	1 Ph / 1 Ph
CAPACITY	10000 VA / 10000 W		
PARALLEL CAPABILITY	10		
INPUT			
Nominal Voltage	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)		208/220/230/240 VAC (1Ph+N+PE)
Voltage Range	190-520 VAC (3Ph) @ 50% load 305-478 VAC (3Ph) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load
Frequency Range	40 Hz ~ 70 Hz		
Power Factor	≤0.99 @ 100% load		
THDi	< 4% @ full linear load		
OUTPUT			
Output Voltage	360VAC/380VAC/400VAC/415VAC (3Ph+N)		208/220/230/240 VAC (1Ph+N)
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≤2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	94%	94%	93,5%
ECO Mode	97%	97%	97%
Battery Mode	At Full Load	93%	92%
	Peak	93,5%	92,5%
BATTERY			
Battery Voltage	± 12V / 9 Ah		
Battery Numbers	16 ~ 20 pcs (adjustable) x 2		
Nominal Voltage	+/-192V (12V x 32 pcs)		
Maximum Voltage	+/- 240V (12V x 40 pcs)		
Minimum Voltage	+/-192V (12V x 32 pcs)		
Charging Voltage	± 218V		
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	± 4A		
INDICATORS			
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
DIMENSIONS & WEIGHT			
D X W X H (mm)	678 x 418 x 129 [3U]		
Weight (kgs)	20,5		
ENVIRONMENTAL			
Operation Humidity	0-95 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter		
SOFTWARE & MANAGEMENT			
Smart RS-232/USB	Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC		
SNMP (Optional)	Power management from SNMP manager and web browser		
EPO (Optional)	UPS immediately shuts down		

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.
Product specifications are subject to change without further notice



Before using these products carefully read the important informations, user guide and instructions manuel. **tuncmatik** cannot be held responsinle for network performance and/or the products of other manufacturers used on the network. Technical specifications can change without notice.



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