



Three Phase Dual / Triple MPPT Inverter  
**Trio Plus K-Series**

8.0/ 10.0/ 12.0/ 15.0/ 17.0/ 20.0/ 25.0/ 30.0

*Simple. Reliable. Efficient.*



High  
Efficiency



Wide Product  
Range



Remote  
Monitoring



IP66  
Rated



High  
PV Voltage

8.0kW

10.0kW

12.0kW



**Trio-Plus-K-8.0/ Trio-Plus-K-10.0/ Trio-Plus-K-12.0/  
Trio-Plus-K-15.0/Trio-Plus-K-17.0/Trio-Plus-K-20.0/  
Trio-Plus-K-25.0/ Trio-Plus-K-30.0**

Ranging from 8kW to 30kW, TommaTech® Trio Plus K-Series Dual and Triple MPPT on-grid inverters offer maximum flexibility thanks to a market-leading PV input voltage of 1.100V and maximum input currents of 20A for high-power solar panels. This, combined with maximum efficiencies of 98.5% , various communication and online monitoring options as well as IP66 design, make these inverters your preferred choice for any residential solar solution.



Trio-P-K-8 Trio-P-K-10 Trio-P-K-12 Trio-P-K-15 Trio-P-K-17 Trio-P-K-20 Trio-P-K-25 Trio-P-K-30

## DC INPUT

Max. PV array input power [Wp]	12000	15000	18000	22500	25500	30000	37500	45000
Max. DC voltage [V]							1100	1100
Nominal DC operating voltage [V]							650	650
Max. input current per MPPT [A]							32/32	32/32/ 32
Max. short circuit current per MPPT [A]							40/40	40/40/40
MPPT voltage range [V]							160-980	160-980
Start operating voltage [V]							200	200
No. of MPPT							2	3
Strings per MPPT							2	2

## AC OUTPUT

Nominal AC power [VA]	8000	10000	12000	15000	17000	20000	25000	30000
Max. AC power [VA]	8800	11000	13200	16500	18700	22000	27500	30000
Nominal grid voltage [V]	220/380, 230/400, 3/N/PE, 3/PE							
Nominal grid frequency [Hz]	50/60							
Nominal AC current [A]	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	25.8/24.7	30.3/29	37.9/36.3	45.5/43.5
Max. AC current [A]	13.2	16	19.3	24.2	27.5	33.6	41.8	45.5
Displacement power factor	0.8 Leading ~ 0.8 Lacking							
THDi, rated power [%]	<3							

## EFFICIENCY

Euro. efficiency [%]	98.20		98.30			98.50	
Max. efficiency [%]	97.70		97.80			98.00	

## POWER CONSUMPTION

Standby consumption (Night) [W]	<3							
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## STANDARD

Over/under voltage protection	Yes							
Over temp. protection	Yes							
DC isolation impedance monitoring	Yes							
Anti-islanding protection	Yes							
DC injection monitoring	Yes							
RCD protection	Yes							
LCD Display	Yes							
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004							
EMC	IEC/EN 61000; NB/T 32004							

## ENVIRONMENT LIMIT

Degree of protection (according to IEC60529)	IP66							
Operating temperature range [°C]	-30~+60 (Derating at 45)							
Max. operation altitude [m]	<4000							
Humidity [%]	0~100 (Condensing)							
Storage temperature [°C]	-30~+60							
Typical noise emission [dB]	<30	<30	<30	<30	<45	<45	<50	<50

## DIMENSIONS AND WEIGHT

Dimensions (WxHxD) [mm]	482x417x181							
Weight [kg]	24.5		26			28		
Cooling concept	Natural cooling				Smart fan cooling			
Communication interfaces	RS485 / USB - Update / Optional: Dongle Wi-Fi / Dongle LAN / Dongle 4G / Trio Smart Meter							
Standard warranty [years]	10 (5 Years Product + 5 Year Parts)							