



NPP

CLEAN ENERGY, SAFE POWER

SEALED LEAD ACID BATTERIES

Company Introduction

NPP Power focuses on R&D, manufacturing and sales of traditional and new energy products, including valve-regulated lead-acid batteries, lithium batteries, and solar panels.

At present, the company has five A to Z manufacturing plants, four in China (Dongguan, Guangzhou, Henan and Hunan) and one in Ho Chi Minh City, Vietnam. NPP Power has sales offices all over mainland China and overseas sales subsidiaries in North America, Europe, and Africa. It has built a truly global manufacturing, distribution, marketing and after-sales service network.

NPP Power products are manufactured based on strong technical expertise, coupled with advanced manufacturing equipment. With professional Management and R&D Team, the company acquired ISO9001 quality management system, ISO14001 environment management system, and ISO18001 health and safety management system certifications. Furthermore, Chenzhou NPP Power Co., Ltd. was certified as a high-tech enterprise in China.

We pay great attention to the quality of our products. Strict quality control from the raw materials to the finished products ensures every battery reaches the highest quality standards. NPP Power products own a variety of international certificates and comply with all applicable standards.



Milestones

- **2002** 1st factory founded in Guangzhou, with a total area of 40,000m²
- **2003** Shanghai & Guangzhou offices established
- **2005** Beijing, Shenzhen & Chengdu offices established
- **2010** Shenyang & Xi'an offices established
- **2011** 2nd factory founded in Jiaozuo, a total area of 70,000m²
- **2012** Total 16 sales offices located in China
- **2013** 3rd factory founded in Chenzhou, a total area of 200,000m²
- **2014** North American office & warehouse established in Los Angeles, USA
- **2017** 4th factory founded in Dongguan, manufacturing lithium batteries and solar panels
- **2017** European office & warehouse established in Rotterdam, The Netherlands
- **2018** 5th factory founded in Ho Chi Minh City, Vietnam, a total area of 72,280m²
- **2018** African office & warehouse established in Lagos, Nigeria
- **2019** Second phase of Vietnam factory expansion

NPP Power Guangzhou factory, China



NPP Power Henan factory, China



NPP Power Dongguan factory, China



NPP Power Hunan factory, China



Our Culture

For the customer • By the customer • Of the customer

Customer Service

100% Customer Satisfaction Service
HEE Principle - Your Hands • Your Eyes • Your Ears
Six Sigma • 6S



NP SERIES

General Purpose

Overview

NPP Power general-purpose series batteries are designed with state-of-the-art AGM (absorbent glass mat) technology, high-performance plates and electrolyte. With excellent value and characteristics, this range is suitable for all general purpose applications.

Characteristics

- Capacity range: 1.2Ah to 3000Ah
- Available in: 2V cells; 4V, 6V and 12V blocks
- EUROBAT design life:
2V > 200Ah: > 12 years, Very Long Life
4V/6V/12V ≤ 28Ah: 3 - 5 years, Standard Commercial
6V/12V > 28Ah: 10/12 years, Long Life
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: - 20°C to + 50°C
- Recommended operation temperature: 25°C

Design Features

- Stable quality & high reliability
- Long service life
- Maintenance-free operation
- Heavy-duty grids
- Low self-discharge
- Container available in flame retardant (UL 94-V0)

Applications

- Emergency light systems
- Firefighting equipment
- Alarm systems
- UPS
- Electric toys
- Medical equipment
- Telecommunications
- IT equipment

Certifications



Compliant to: EUROBAT, RoHS, WEEE's, Reach
Manufactured according to IEC 60896-21 / 22

NP SERIES 12V

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg]	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	3Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
NP12-1.2Ah	12	1.2	1.1	0.9	90.0	T1	E	5	3-5	0.54±5%	98±1	43±1	52±1	58±1
NP12-2Ah	12	2	1.9	1.4	72.0	T1	C	5	3-5	0.74±5%	70±1	47±1	98±1	103±1
NP12-2.3Ah	12	2.3	2.1	1.6	60.0	T1	C	5	3-5	0.88±5%	178±1	34±1	60±1	66±1
NP12-2.9Ah	12	2.9	2.7	2.1	45.0	T1	D	5	3-5	1.05±5%	79±1	56±1	99±1	104±1
NP12-3.2Ah	12	3.2	3	2.3	50.0	T1	F	5	3-5	1.20±5%	134±1	67±1	61±1	67±1
NP12-4.5Ah	12	4.5	4.2	3.0	30.0	T1/T2	C	5	3-5	1.50±4%	90±1	70±1	101±1	107±1
NP12-5.5Ah	12	5.5	5	3.9	32.0	T1/T2	F	5	3-5	1.85±4%	151±1.5	65±1	94±1	100±1
NP12-7Ah	12	7	6.5	5.1	25.0	T1/T2	F	5	3-5	2.10±4%	151±1.5	65±1	94±1	100±1
NP12-7.2Ah	12	7.2	6.7	5.2	30.0	T1/T2	F	5	3-5	2.20±4%	151±1.5	65±1	94±1	100±1
NP12-9Ah	12	9	8.2	6.3	20.0	T1/T2	F	5	3-5	2.50±4%	151±1.5	65±1	94±1	100±1
NP12-12Ah	12	12	11	8.7	19.0	T1/T2	F	5	3-5	3.40±4%	151±1.5	98±1	95±1	101±1
NP12-18Ah	12	18	16.8	13.1	15.0	T3/T12	D	5	3-5	5.30±4%	181±2	77±1	167±2	167±2
NP12-20Ah	12	20	18.5	14.5	12.0	T3/T12	D	5	3-5	5.50±4%	181±2	77±1	167±2	167±2
NP12-26Ah	12	26	24	18.9	12.0	T4/T12	D	5	3-5	7.90±4%	166±2	175±2	125±2	125±2
NP12-35Ah	12	37	35	25.0	11.0	T6/T14	C	10	10/12	10.50±3%	195±2	130±2	155±2	167/180±2
NP12-45Ah	12	47	45	33.0	7.5	T14	D	10	10/12	13.80±3%	197±2	165±2	170±2	170±2
NP12-55Ah	12	58	55	41.1	6.5	T14	C	10	10/12	17.30±3%	230±2	138±2	211±2	215±2
NP12-65Ah	12	69	65	48.0	6.5	T14	C	10	10/12	20.40±3%	350±2	166±2	179±2	179±2
NP12-80Ah	12	84	80	60.0	5.5	T14	C	10	10/12	24.20±3%	260±2	168±2	211±2	215±2
NP12-90Ah	12	95	90	67.5	5.0	T14	C	10	10/12	27.00±3%	306±2	169±2	211±2	215±2
NP12-100Ah	12	106	100	75.0	4.5	T16	C	10	10/12	29.50±3%	330±2	171±2	214±2	220±2
NP12-120Ah	12	127	120	90.0	4.0	T16	C	10	10/12	34.80±3%	409±2	176±2	225±2	225±2
NP12-150Ah	12	159	150	112.5	4.0	T16	C	10	10/12	41.80±3%	485±2	172±2	240±2	240±2
NP12-160Ah	12	169	160	120.0	3.5	T16	E	10	10/12	50.00±3%	530±2	207±2	214±2	218±2
NP12-180Ah	12	190	180	135.0	3.2	T16	E	10	10/12	54.00±3%	530±2	207±2	214±2	218±2
NP12-200Ah	12	212	200	150.0	3.5	T18	E	10	10/12	59.50±3%	522±2	238±2	218±2	222±2
NP12-250Ah	12	266	250	187.5	3.0	T18	E	10	10/12	72.00±3%	521±2	269±2	220±2	224±2



NP SERIES 6V & 4V

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg]	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	3Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
NP6-1.2Ah	6	1.2	1.1	0.8	52.0	T1	C	5	3-5	0.28±5%	98±1	25±1	52±1	58±1
NP6-2.8Ah	6	2.8	2.6	1.9	27.0	T1	A	5	3-5	0.48±5%	66±1	33±1	97±1	103±1
NP6-3.2Ah	6	3.2	3	2.3	25.0	T1	C	5	3-5	0.60±5%	134±1	34±1	61±1	67±1
NP6-5Ah	6	5	4.7	3.6	15.0	T1	A	5	3-5	0.84±5%	70±1	48±1	101±1	107±1
NP6-8Ah	6	8	7.5	5.8	10.0	T1/T2	C	5	3-5	1.28±5%	151±1	34±1	94±1	100±1
NP6-12Ah	6	12	11	8.7	10.0	T1/T2	C	5	3-5	1.70±5%	151±1	50±1	94±1	100±1
NP6-100Ah	6	106	100	75.0	3.0	T14	A	10	10/12	14.80±3%	194±2	170±2	205±2	210±2
NP6-150Ah	6	159	150	112.5	2.5	T16	B	10	10/12	24.00±3%	260±2	180±2	245±2	250±2
NP6-180Ah	6	190	180	135.0	2.2	T16	B	10	10/12	27.50±3%	306±2	169±2	220±2	225±2
NP6-200Ah	6	212	200	150.0	2.0	T16	A	10	10/12	29.00±3%	322±2	178±2	227±2	230±2
NP4-4.5Ah	4	4.5	4.2	3.0	15.0	T1	D	5	3-5	0.52±5%	47±1	47±1	101±1	107±1
NP4-9Ah	4	9	8.4	6.0	9.0	T1/T2	C	5	3-5	0.95±5%	102±1	44±1	95±1	101±1



NP SERIES 2V

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg]	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	3Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
NP2-100Ah	2	107	100	75	0.8	T16	A	10	10/12	5.30±4%	171±2	72±1	205±2	210±2
NP2-150Ah	2	159	150	113	0.6	T18	G	10	10/12	8.00±4%	171±2	102±2	206±2	221±2
NP2-200Ah	2	204	200	150	0.8	T20	G	15	>12	12.70±3%	171±2	111±2	330±2	364±2
NP2-300Ah	2	318	300	225	0.7	T20	G	15	>12	18.00±3%	171±2	151±2	330±2	364±2
NP2-400Ah	2	424	400	300	0.6	T20	H	15	>12	25.50±3%	210±2	176±2	330±2	367±2
NP2-500Ah	2	530	500	375	0.5	T20	H	15	>12	31.50±3%	241±2	171±2	330±2	365±2
NP2-600Ah	2	636	600	450	0.5	T20	H	15	>12	36.50±3%	302±2	175±2	330±2	367±2
NP2-800Ah	2	848	800	600	0.4	T20	J	15	>12	50.50±3%	410±2	175±2	330±2	367±2
NP2-1000Ah	2	1060	1000	750	0.3	T20	J	15	>12	60.50±3%	475±2	175±2	330±2	367±2
NP2-1500Ah	2	1590	1500	1125	0.2	T20	K	15	>12	93.00±3%	400±2	350±2	345±2	382±2
NP2-2000Ah	2	2120	2000	1500	0.2	T20	L	15	>12	124.0±3%	490±2	350±2	345±2	382±2
NP2-3000Ah	2	3180	3000	2250	0.1	T20	L	15	>12	180.0±3%	710±2	350±2	345±2	382±2





HR SERIES

High-Rate

Overview

NPP Power High Rate series batteries are specially designed for applications that require high power output. With their high-power density and low internal resistance, the HR series are the right choice for your most demanding applications.

Characteristics

- Power range: 21W to 520W
- Available in: 6V and 12V blocks
- Self-discharge per month: ≤ 3% at 25°C
- High performance at high current discharges over 2°C
- EUROBAT design life:
 - 12V ≤ 110W: 3 – 5 years, Standard Commercial
 - 12V > 110W: 10/12 years, Long Life
- Operation temperature range: - 20°C to + 50°C
- Recommended operation temperature: 25°C

Design Features

- Operation at a low internal pressure
- Positive and negative plates in lead-calcium-tin alloy
- Superior energy density
- Very high power output
- Container available in flame retardant (UL 94-V0)

Applications

- UPS
- High-power UPS
- Data Centers
- Telecommunication
- Electric Power systems

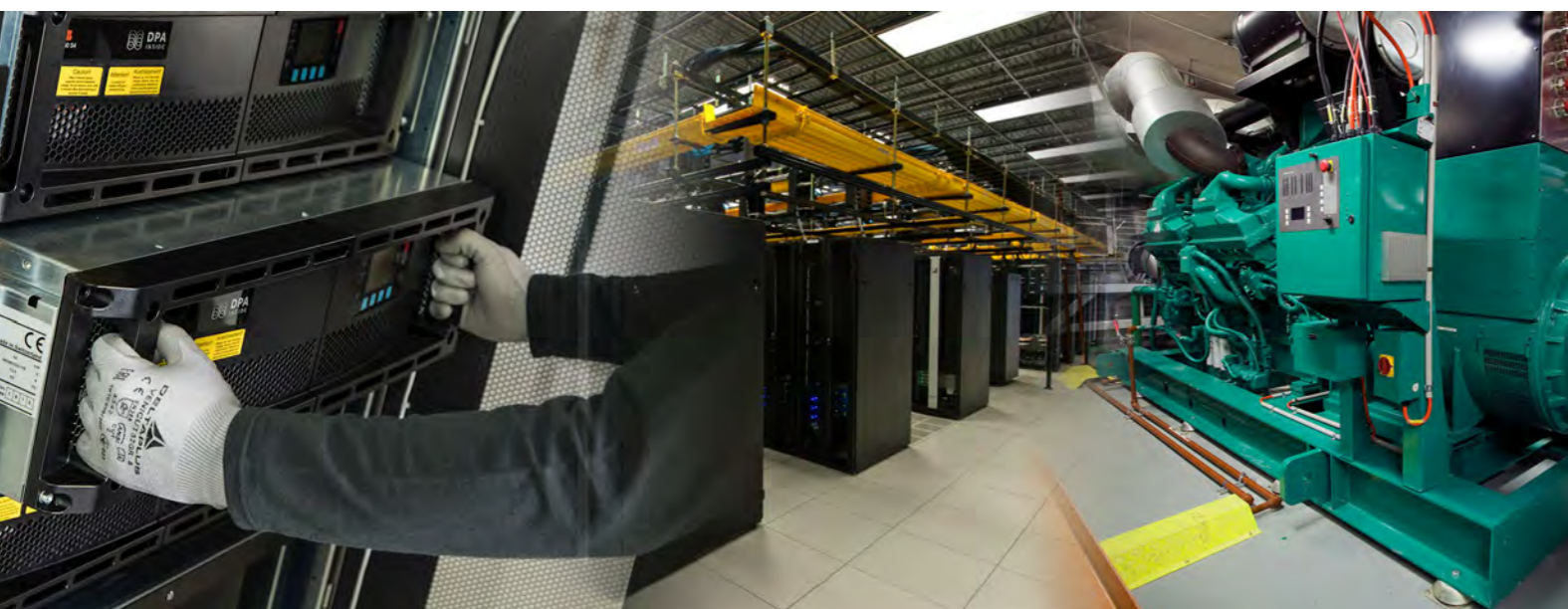
Certifications



Compliant to: EUROBAT, RoHS, WEEE's, Reach
Manufactured according to IEC 60896-21 / 22

HR SERIES

Battery Model	Nominal Voltage [V]	Rated Power [W/cell] @15min 1,67V/cell, 25°C	Rated Capacity [Ah] 20Hr 1.80V/cell	Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg]	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
							JIS 20°C	EUROBAT 20°C					
HR634W	6	34	9	8.0	T1/T2	C	5	3-5	1.35±4%	151±1.5	34±1	94±1	100±1
HR1221W	12	21	5	23.0	T1/T2	C	5	3-5	1.62±4%	90±1	70±1	101±1	107±1
HR1224W	12	24	6	19.0	T1/T2	F	5	3-5	1.94±4%	151±1.5	51±1	94±1	99±1
HR1228W	12	28	7.5	20.0	T1/T2	F	5	3-5	2.35±4%	151±1.5	65±1	94±1	100±1
HR1234W	12	34	9	14.0	T1/T2	F	5	3-5	2.60±4%	151±1.5	65±1	94±1	100±1
HR1235W	12	35	9	17.0	T1/T2	F	10	10/12	2.73±4%	151±1.5	65±1	94±1	100±1
HR1251W	12	51	12	11.0	T1/T2	F	5	3-5	4.00±4%	151±1.5	98±1	95±1	101±1
HR1276W	12	76	18	12.0	T12	D	5	3-5	5.80±3%	181±2	77±1	167±2	167±2
HR12110W	12	110	28	9.0	T14	D	5	3-5	8.80±3%	166±2	126±2	174±2	174±2
HR12130W	12	130	35	8.0	T14	C	10	10/12	11.50±3%	195±2	130±2	155±2	167±2
HR12160W	12	160	48	7.0	T14	D	10	10/12	14.30±3%	197±2	165±2	170±2	170±2
HR12200W	12	200	58	6.5	T14	C	10	10/12	17.30±3%	230±2	138±2	211±2	215±2
HR12280W	12	280	80	5.0	T14	C	10	10/12	25.30±3%	260±2	168±2	211±2	215±2
HR12330W	12	330	100	5.0	T14	C	10	10/12	28.50±3%	306±2	169±2	211±2	215±2
HR12390W	12	390	115	4.0	T16	C	10	10/12	32.70±3%	330±2	171±2	214±2	220±2
HR12475W	12	475	145	3.8	T16	C	10	10/12	44.00±3%	342±2	172±2	280±2	285±2
HR12520W	12	520	155	3.4	T16	C	10	10/12	47.00±3%	342±2	172±2	280±2	285±2





NPD SERIES

Deep Cycle

Overview

NPP Power Deep Cycle Series are manufactured specifically to provide outstanding performance in deep cycling applications. The batteries are designed using enhanced alloy contents plates and active paste materials.

Characteristics

- Capacity range: 7.2Ah to 3000Ah
- Available in: 2V cells; 6V and 12V blocks
- Cycle life:
 - 30% DOD: 1300 cycles (6V/12V); 1800 cycles (2V)
 - 50% DOD: 700 cycles (6V/12V); 850 cycles (2V)
 - 100% DOD: 300 cycles (6V/12V); 400 cycles (2V)
- EUROBAT design life:
 - 2V > 200Ah: >12 years, Very Long Life (depending on cycles)
 - 6V/12V ≤ 28Ah: 6 - 9 years, General Purpose (depending on cycles)
 - 6V/12V > 28Ah: 10/12 years, Long Life (depending on cycles)
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: - 20°C to + 50°C
- Recommended operation temperature: 25°C

Applications

All the NP series applications plus:

- Solar Systems
- Wind systems
- Power supply
- Electrical vehicles
- Wheelchairs and scooters

Design Features

All the NP series features plus:

- Excellent deep cycle design
- Longer life in deep cycle applications
- High power density
- Excellent recovery from deep discharge
- Wide working environment
- Container available in flame retardant (UL 94-V0)

Certifications



Compliant to: EUROBAT, RoHS, WEEE's, Reach
Manufactured according to IEC 60896-21 / 22



NPD SERIES

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg] ± 3%	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	5Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
NPD2-200Ah	2	222	200	183	0.90	T20	G	15	>12	14.00	171±2	111±2	330±2	364±2
NPD2-300Ah	2	340	300	278	0.75	T20	G	15	>12	19.50	171±2	151±2	330±2	364±2
NPD2-400Ah	2	446	400	365	0.60	T20	H	15	>12	27.00	210±2	176±2	330±2	367±2
NPD2-500Ah	2	562	500	460	0.50	T20	H	15	>12	31.50	241±2	171±2	330±2	365±2
NPD2-600Ah	2	668	600	545	0.45	T20	H	15	>12	38.00	302±2	175±2	330±2	367±2
NPD2-800Ah	2	890	800	730	0.35	T20	J	15	>12	53.00	410±2	175±2	330±2	367±2
NPD2-1000Ah	2	1114	1000	910	0.28	T20	J	15	>12	63.00	475±2	175±2	330±2	367±2
NPD2-1500Ah	2	1654	1500	1355	0.20	T20	K	15	>12	96.50	400±2	350±2	345±2	382±2
NPD2-2000Ah	2	2220	2000	1825	0.17	T20	L	15	>12	131.0	490±2	350±2	345±2	382±2
NPD2-3000Ah	2	3300	3000	2710	0.11	T20	L	15	>12	191.0	710±2	350±2	345±2	382±2
NPD6-100Ah	6	109	100	88	2.80	T14	A	10	10/12	16.00	194±2	170±2	205±2	210±2
NPD6-150Ah	6	164	150	133	2.30	T16	B	10	10/12	25.50	260±2	180±2	245±2	250±2
NPD6-180Ah	6	196	180	158	2.00	T16	B	10	10/12	29.50	306±2	169±2	220±2	225±2
NPD6-200Ah	6	218	200	176	1.80	T16	A	10	10/12	30.50	322±2	178±2	227±2	230±2
NPD12-7.2Ah	12	7.2	6.8	6.0	20.00	T1/T2	F	5	6-9	2.60	151±1.5	65±1	94±1	100±1
NPD12-12Ah	12	12	11.7	10.3	13.00	T1/T2	F	5	6-9	4.05	151±1.5	98±1	95±1	101±1
NPD12-20Ah	12	20	19	17.0	12.00	T3/T12	D	5	6-9	5.80	181±2	77±1	167±2	167±2
NPD12-26Ah	12	26	24	21.5	12.00	T4/T12	D	5	6-9	8.20	166±2	175±1	125±2	125±2
NPD12-28Ah	12	28	25	23.5	10.00	T5/T14	D	8	6-9	8.80	166±2	126±1	174±2	174±2
NPD12-33Ah	12	36	33	29	9.00	T14/T6	C	10	10/12	11.00	195±2	130±2	155±2	167/180±2
NPD12-45Ah	12	48	45	38	8.00	T14	D	10	10/12	14.50	197±2	165±2	170±2	170±2
NPD12-50Ah	12	57	50	46	6.50	T14	C	10	10/12	17.30	230±2	138±2	211±2	215±2
NPD12-65Ah	12	72	65	58	6.50	T14	C	10	10/12	21.00	350±2	166±2	179±2	179±2
NPD12-75Ah	12	82	75	66.5	5.50	T14	C	10	10/12	24.20	260±2	169±2	211±2	215±2
NPD12-90Ah	12	100	90	81	5.00	T14	C	10	10/12	28.50	306±2	169±2	211±2	215±2
NPD12-100Ah	12	108	100	87	4.50	T16	C	10	10/12	30.50	330±2	171±2	214±2	220±2
NPD12-110Ah	12	114.4	110	82.5	4.30	T16	C	10	10/12	32.50	330±2	171±2	214±2	220±2
NPD12-120Ah	12	130	120	105	4.00	T16	C	10	10/12	36.00	409±2	176±2	225±2	225±2
NPD12-134Ah	12	145	134	119.5	3.80	T16/T16A	C	10	10/12	44.00	342±2	172±2	280±2	285±2
NPD12-150Ah	12	163	150	132	3.50	T16	C	10	10/12	44.50	485±2	172±2	280±2	285±2
NPD12-200Ah	12	216	200	174	3.00	T18	E	10	10/12	62.50	522±2	238±2	218±2	222±2
NPD12-250Ah	12	270	250	218	2.60	T18	E	10	10/12	75.50	521±2	269±2	220±2	224±2





NPG SERIES

Deep Cycle Gel

Overview

NPP Power AGM GEL Series are manufactured following the highest demands in the deep cycle and renewable energy applications. The batteries use colloidal or foamed silica gel to immobilize the electrolyte, which further enhances the cycling stability. Available in top and front terminal types.

Characteristics

- Capacity range: 33Ah to 3000Ah
- EUROBAT design life:
2V > 200Ah: > 12 years, Very Long Life (depending on cycles)
6V/12V: 10/12 years, Long Life (depending on cycles)
- Cycle life:
30% DOD: 1700 cycles (6V/12V); 2300 cycles (2V)
50% DOD: 800 cycles (6V/12V); 1200 cycles (2V)
100% DOD: 350 cycles (6V/12V); 500 cycles (2V)
- Available in: 2V cells; 6V and 12V blocks
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: - 20°C to + 50°C
- Recommended operation temperature: 25°C

Applications

- UPS
- Telecommunication
- Solar and wind systems
- Railway systems
- Electrical vehicles
- Wheelchairs and scooters

Design Features

- Superior deep cycle design
- Very long life in deep cycle applications
- Superior recovery from deep discharge
- Wide working environment
- Container available in flame retardant (UL 94-V0)

Certifications



Compliant to: EUROBAT, RoHS, WEEE's, Reach
Manufactured according to IEC 60896-21 / 22



NPG SERIES

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg] ± 3%	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	5Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
NPG2-200Ah	2	210	200	163	0.95	T20	D	18	>12	14.00±3%	171±2	111±2	330±2	364±2
NPG2-300Ah	2	316	300	245	0.80	T20	D	18	>12	19.50±3%	171±2	151±2	330±2	364±2
NPG2-400Ah	2	420	400	326	0.65	T20	H	18	>12	27.00±3%	210±2	176±2	330±2	367±2
NPG2-500Ah	2	526	500	408	0.55	T20	H	18	>12	31.50±3%	241±2	171±2	330±2	365±2
NPG2-600Ah	2	630	600	489	0.50	T20	H	18	>12	38.00±3%	302±2	175±2	330±2	367±2
NPG2-800Ah	2	840	800	650	0.40	T20	J	18	>12	53.00±3%	410±2	175±2	330±2	367±2
NPG2-1000Ah	2	1050	1000	815	0.30	T20	J	18	>12	63.00±3%	475±2	175±2	330±2	367±2
NPG2-1500Ah	2	1542	1500	1220	0.23	T20	K	18	>12	96.50±3%	400±2	350±2	345±2	382±2
NPG2-2000Ah	2	2100	2000	1630	0.20	T20	L	18	>12	131.0±3%	490±2	350±2	345±2	382±2
NPG2-3000Ah	2	3160	3000	2445	0.13	T20	L	18	>12	188.0±3%	710±2	350±2	345±2	382±2
NPG6-100Ah	6	106	100	83	3.00	T14	A	12	10/12	16.00±3%	194±2	170±2	205±2	210±2
NPG6-150Ah	6	159	150	124	2.50	T16	B	12	10/12	25.50±3%	260±2	180±2	245±2	250±2
NPG6-180Ah	6	190	180	149	2.20	T16	B	12	10/12	29.50±3%	306±2	169±2	220±2	225±2
NPG6-200Ah	6	212	200	165	2.00	T16	A	12	10/12	30.50±3%	322±2	178±2	227±2	230±2
NPG12-7.2Ah	12	7.2	6.7	5.1	35.00	T1/T2	F	10	10/12	2.42±4%	151±1.5	65±1	94±1	100±1
NPG12-20Ah	12	20	18	16	13.00	T4/T12	D	12	10/12	5.80±4%	181±2	77±2	167±2	167±2
NPG12-26Ah	12	26	24	21	11.00	T3/T12	D	12	10/12	8.80±4%	166±2	175±2	125±2	125±2
NPG12-33Ah	12	35	33	27	9.50	T14/T6	C	12	10/12	11.00±4%	195±2	130±2	155±2	167±2/180±2
NPG12-40Ah	12	42	40	33	8.50	T14	D	12	10/12	13.50±4%	197±3	165±3	170±3	170±3
NPG12-50Ah	12	53	50	41	7.00	T14	C	12	10/12	16.00±3%	230±2	138±2	211±2	215±2
NPG12-65Ah	12	69	65	54	7.00	T14	C	12	10/12	21.00±3%	350±2	166±2	179±2	179±2
NPG12-75Ah	12	79	75	62	6.00	T14	C	12	10/12	24.50±3%	260±2	169±2	211±2	215±2
NPG12-90Ah	12	95	90	74	5.50	T14	C	12	10/12	28.50±3%	306±2	169±2	211±2	215±2
NPG12-100Ah	12	106	100	83	5.00	T16	C	12	10/12	30.50±3%	330±2	171±2	214±2	220±2
NPG12-120Ah	12	127	120	99	4.50	T16	C	12	10/12	36.00±3%	409±2	176±2	225±2	225±2
NPG12-150Ah	12	159	150	124	3.80	T16	C	12	10/12	44.50±3%	485±2	172±2	240±2	240±2
NPG12-200Ah	12	212	200	146	3.30	T16	E	12	10/12	62.50±3%	522±2	238±2	218±2	222±2
NPG12-250Ah	12	266	250	206	2.80	T16	E	12	10/12	75.50±3%	521±2	269±2	220±2	224±2
FTG12-50Ah	12	53	50	41	7.50	T14	E	12	10/12	17.30±3%	277±2	106±2	221±2	221±2
FTG12-75Ah	12	80	75	62	6.50	T14	E	12	10/12	25.00±3%	562±2	114±2	189±2	189±2
FTG12-100Ah	12	106	100	83	6.00	T16	E	12	10/12	32.80±3%	395±2	110±2	286±2	286±2
FTG12-105Ah	12	111	105	87	5.50	T16	E	12	10/12	32.00±3%	506±2	110±2	224±2	239±2
FTG12-125Ah	12	137	125	105	4.70	T18	E	12	10/12	41.50±3%	550±2	105±2	315±2	315±2
FTG12-150Ah	12	159	150	126	4.50	T16	E	12	10/12	48.00±3%	551±2	110±2	287±2	287±2
FTG12-155Ah	12	164	155	128	4.50	T18	E	12	10/12	49.50±3%	546±2	125±2	315±2	315±2
FTG12-180Ah	12	190	180	148	3.80	T18	E	12	10/12	55.00±3%	546±2	125±2	315±2	315±2





FT SERIES

Front Terminal

Overview

NPP Power Front Terminal Series batteries are mainly used in the area of communication. By adopting a new AGM separator and centralized venting system, the battery can be installed in different positions while maintaining high reliability. Available in gel technology also.

Characteristics

- Capacity range: 50Ah to 200Ah
- Available in: 12V blocks
- EUROBAT design life: 10/12 years, Long Life
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: - 20°C to + 50°C
- Recommended operation temperature: 25°C

Applications

- UPS
- Telecommunication
- Solar systems

Design Features

- Low internal resistance
- Long service life
- High energy density
- Very low self-discharge
- Container available in flame retardant (UL 94-V0)

Certifications



Compliant to: EUROBAT, RoHS, WEEE's, Reach
Manufactured according to IEC 60896-21 / 22



FT SERIES

Battery Model	Nominal Voltage [V]	Rated Capacity [Ah], 25°C			Internal Resistance [mΩ]	Terminal Type	Terminal Location	Design Life [years]		Weight [kg] ± 3%	Length [mm]	Width [mm]	Height [mm]	Total Height [mm]
		20Hr 1.80V/cell	10Hr 1.80V/cell	5Hr 1.80V/cell				JIS 25°C	EUROBAT 20°C					
FT12-50Ah	12	53	50	42	7.50	T14	E	12	10/12	16.00±3%	277±2	106±2	221±2	221±2
FT12-75Ah	12	79	75	64	6.00	T14	E	12	10/12	24.50±3%	562±2	114±2	189±2	189±2
FT12-100Ah	12	106	100	85	5.50	T16	E	12	10/12	32.80±3%	395±2	110±2	286±2	286±2
FT12-105Ah	12	111	105	89	5.00	T16	E	12	10/12	32.00±3%	506±2	110±2	224±2	239±2
FT12-125Ah	12	132	125	100	4.50	T18	E	12	10/12	42.00±3%	550±2	105±2	315±2	315±2
FT12-150Ah	12	159	150	128	4.00	T16	E	12	10/12	47.50±3%	551±2	110±2	287±2	287±2
FT12-155Ah	12	164	155	132	4.00	T18	E	12	10/12	50.00±3%	546±2	125±2	315±2	315±2
FT12-180Ah	12	190	180	153	3.50	T18	E	12	10/12	55.00±3%	546±2	125±2	315±2	315±2
FT12-200Ah	12	212	200	170	3.50	T18	E	12	10/12	60.50±3%	546±2	125±2	317±2	323±2
FTG12-50Ah	12	53	50	41	8.00	T14	E	12	10/12	16.00±3%	277±2	106±2	221±2	221±2
FTG12-75Ah	12	79	75	62	6.50	T14	E	12	10/12	25.00±3%	562±2	114±2	189±2	189±2
FTG12-100Ah	12	106	100	82	6.00	T16	E	12	10/12	32.80±3%	395±2	110±2	286±2	286±2
FTG12-105Ah	12	111	105	86	5.50	T16	E	12	10/12	32.00±3%	506±2	110±2	224±2	239±2
FTG12-125Ah	12	132	125	103	5.00	T18	E	12	10/12	41.50±3%	550±2	105±2	315±2	315±2
FTG12-150Ah	12	159	150	123	4.50	T16	E	12	10/12	48.00±3%	551±2	110±2	287±2	287±2
FTG12-155Ah	12	164	155	128	4.50	T18	E	12	10/12	49.50±3%	546±2	125±2	315±2	315±2
FTG12-180Ah	12	190	180	153	3.80	T18	E	12	10/12	55.00±3%	546±2	125±2	315±2	315±2



Technical Information

Charging & Discharging

Charge Voltage & Charge Current

Ambient Temperature: 25°C

Usage	Standby Use				Cycle Use			
	2V Cell	4V Battery	6V Battery	12V Battery	2V Cell	4V Battery	6V Battery	12V Battery
Charge Voltage (V)	2.25 ~ 2.30	4.50 ~ 4.60	6.75 ~ 6.90	13.5 ~ 13.8	2.40 ~ 2.50	4.80 ~ 5.00	7.25 ~ 7.50	14.5 ~ 15.0
Max Charge Current (A)	0.3C*	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C
Max Charge Current NPG (A)	0.2C*	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C
Max Charge Current HR (A)	0.08P*	0.08P	0.08P	0.08P	0.08P	0.08P	0.08P	0.08P

Discharge Voltage & Final Voltage

Ambient Temperature: 25°C

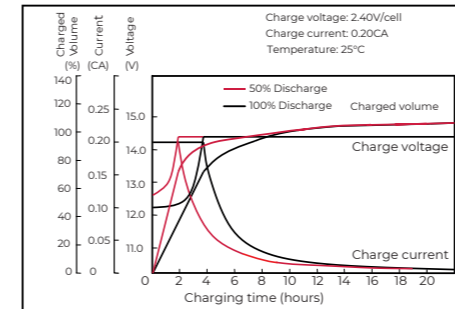
Discharge Current (A)	Final Voltage (V)			
	2V Battery	4V Battery	6V Battery	12V Battery
0.05C ₂₀	1.75	3.50	5.35	10.50
0.1C ₁₀ ~ 0.25C ₁₀	1.80	3.60	5.40	10.80
0.55C ₂₀	1.75	3.50	5.25	10.50
1C ₁₀ ~ 3C ₁₀	1.60	3.20	4.80	9.60

Notes:

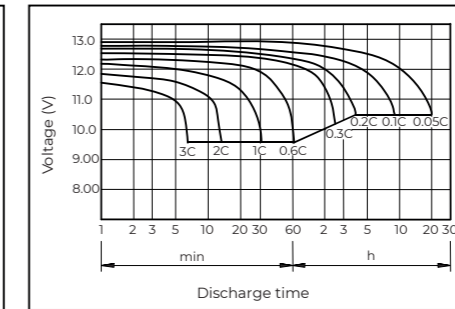
1. "C" means Ah value of battery's rated capacity. "P" means watt value of battery's rated power (HR series).
2. When the ambient temperature is outside of 15°C to 35°C range, use a temperature compensation factor $\pm 3 \text{ mV}/^\circ\text{C}/\text{cell}$ (standby charge) or $\pm 5 \text{ mV}/^\circ\text{C}/\text{cell}$ (cycle charge), starting from the standard centre point at 25°C.
3. When charging, the ambient temperature should be in the range of -10°C to +50°C.
4. End of discharge voltage should vary according to the discharge current.
5. Battery voltage must be higher than it's corresponding end voltage when discharge.
6. Charge the batteries immediately after discharge.
7. When discharging, the ambient temperature should be in the range of -15°C to +50°C.

Characteristics & Cycle Life

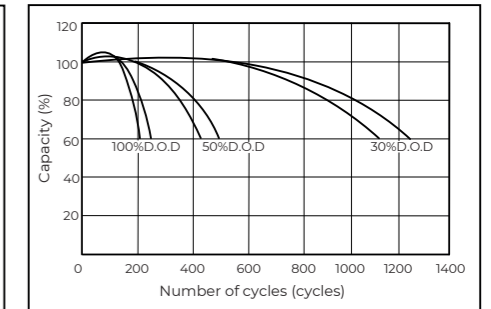
Charging characteristics (25°C) - all series



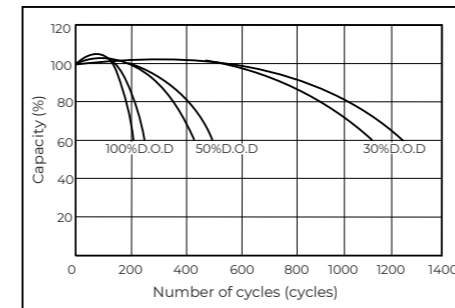
Discharge characteristics (25°C) - all series



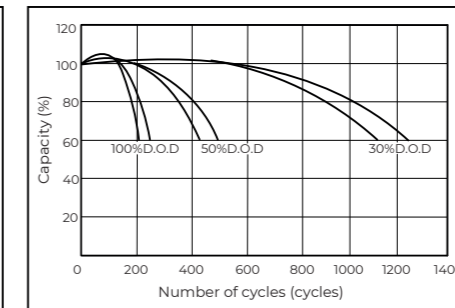
Cycle life on D.O.D. (25°C) - FT series (non gel)



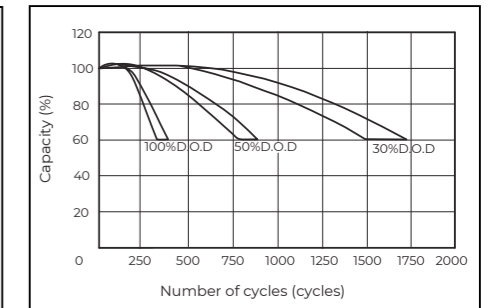
Cycle life on D.O.D. (25°C) - HR series



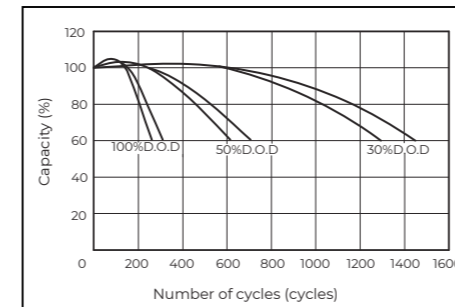
Cycle life on D.O.D. (25°C) - NP series 4V, 6V and 12V



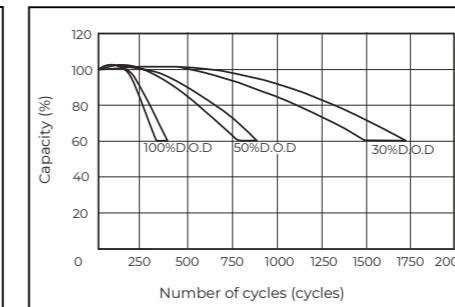
Cycle life on D.O.D. (25°C) - NP series 2V cells



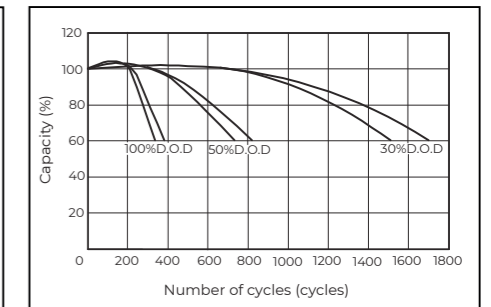
Cycle life on D.O.D. (25°C) - NPD series 6V and 12V



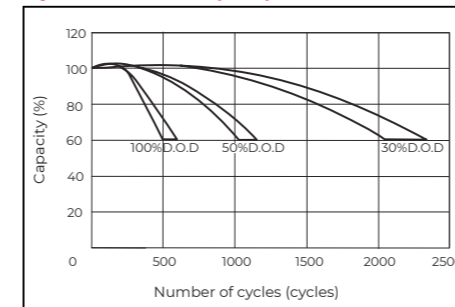
Cycle life on D.O.D. (25°C) - NPD series 2V cells



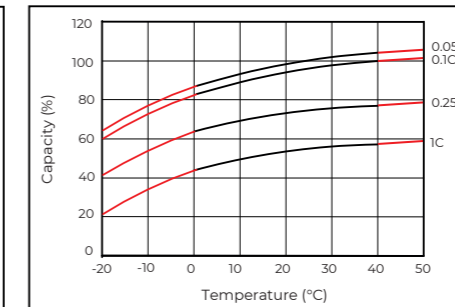
Cycle life on D.O.D. (25°C) - NPG series 6V and 12V



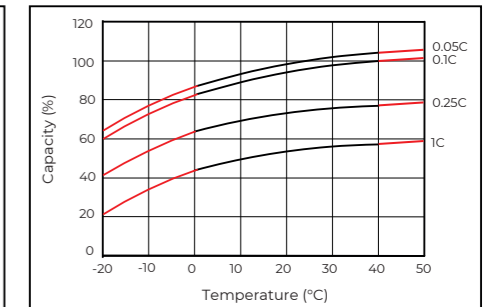
Cycle life on D.O.D. (25°C) - NPG series 2V cells



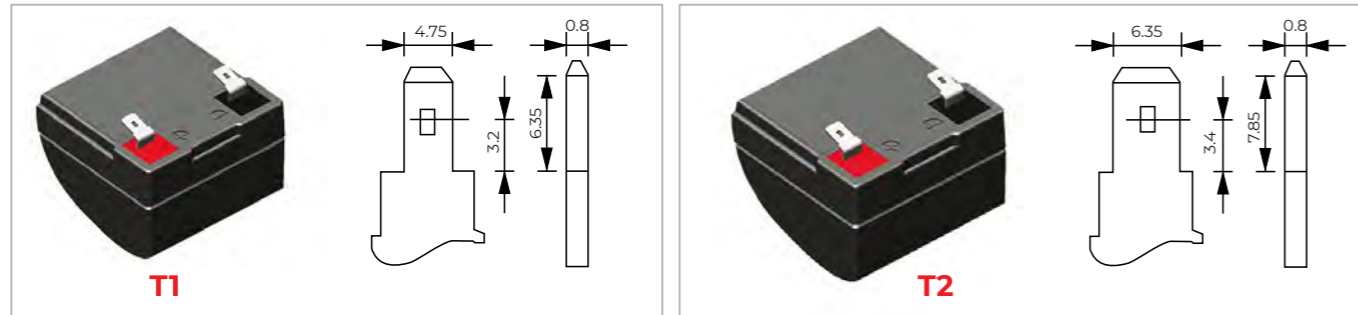
Temperature effects on capacity NPD and NPG



Temperature effects on capacity NP, FT and HR



Terminal Type & Position



Flat Terminal

Type	A (mm)	B (mm)	C (mm)	D (mm)	Material
T3	12	6	12	2	Cu
T4	14	6	14	2	Cu
T5	16	7	17	8	Pb
T6	18	8	18	7	Pb
T7	18	7	20	8	Pb
T8	24	9	24	7	Pb
T9	26	9	25	8	Pb
T10	26	9	21	7	Pb
T21	20	6	18	3	Cu
T22	22	9	23	3	Cu
T25	25	9	23	3	Cu
T64	20	6	16	3	Cu

Insert Terminal

Type	A (mm)	B (mm)	C (mm)	Material
T12	12	5	2	Cu
T14	14	6	4	Cu
T16	16	8	5	Cu
T16A	16	6	5	Cu
T18	18	8	5	Cu
T20	20	8	5	Cu

	Torque specification		N.m
T12	3.0 ± 0.6		
T14	5.1 ± 0.6		
T16	12.3 ± 2.5		
T16A	5.1 ± 0.6		
T18	12.3 ± 2.5		
T20	12.3 ± 2.5		

Certificates

Recycling

NPP Power Europe B.V. is certified as a battery recycling company by the Dutch government institution Stibat.

If you need support or information on recycling batteries, please call +31- (0) 88-8882900 or email: recycle@npp-power.eu

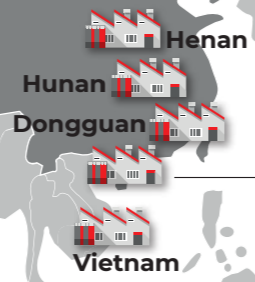
Please never dispose of your old battery as household waste. Do not allow electrolyte to enter drains, soil, or groundwater. Always dispose of batteries in designated disposal areas.



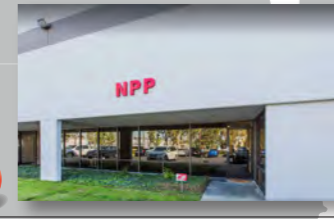
Rotterdam, The Netherlands



Lagos, Nigeria



Henan
Hunan
Dongguan
Vietnam



Los Angeles, USA



Guangzhou, China



NPP Factory



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For the customer · By the customer · Of the customer