

NP12-160Ah

Valve-regulated lead-acid battery



GENERAL PURPOSE SERIES

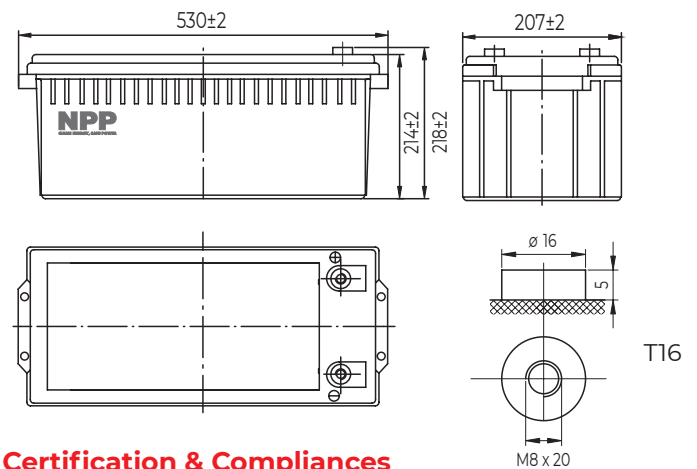
Characteristics

Nominal voltage	12V (6 cells per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	160Ah	
Capacity (25°C)	20 Hours rate/10.8V	169.6Ah
	5 Hours rate/10.8V	136.5Ah
Terminal type	T16	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	3.5mΩ	
Dimensions	Length	530±2mm (20.87inch)
	Width	207±2mm (8.15inch)
	Height	214±2mm (8.43inch)
	Total height (T14)	218±2mm (8.58inch)
Design Life (stand-by)	JIS at 25°C	10 years
	Eurobat at 20°C	10/12 years
Weight	50.00kg (110.23lbs)±3%	
Nominal operating temperature	25°C±3 (77±5°F)	
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C	13.5V~13.8V	
Cyclic charging voltage at 25°C	14.5V~15.0V	
Temperature compensation	Float charge	-18 mV/°C/Block
	Cycle charge	-30 mV/°C/Block
Max. charging current (A)	48A	
Max. discharge current for 5 seconds	1200A	
Self discharge rate (25°C)	≤3%/month	
Battery container ABS UL94-HB	V-0 optional	

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.

Dimensions & Terminal Type (mm)



Certification & Compliances



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

Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	269	161	98.9	58.5	42.1	33.6	28.7	25.0	19.7	16.3	8.63
9.90V	262	158	97.4	58.1	41.9	33.4	28.6	24.8	19.6	16.3	8.62
10.2V	253	153	94.9	57.6	41.6	33.2	28.4	24.7	19.5	16.2	8.59
10.5V	244	149	92.0	56.7	41.3	33.0	28.2	24.5	19.4	16.1	8.54
10.8V	231	144	89.0	55.3	40.0	32.0	27.3	23.7	18.8	16.0	8.48

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	2951	1804	1127	677	495	395	340	295	235	194	104
9.90V	2881	1768	1110	673	492	393	338	293	233	194	103
10.2V	2774	1714	1082	667	489	390	335	291	232	194	103
10.5V	2680	1672	1048	657	485	388	333	289	230	192	102
10.8V	2538	1611	1015	640	471	376	323	281	223	191	102

The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact NPP Power for the latest available version.

NPP Power (Vietnam) Co., Ltd.

Lot A22.3, Road C4, Thanh Thanh Cong Industrial Zone,
An Hoa Ward, Trang Bang Town, Tay Ninh Province,
Vietnam

Guangzhou NPP Power Co., Ltd.

No.67 Lianglong Road, Huashan Town, Huadu District,
Guangzhou, China
Email: info@nppower.com.cn Tel. +86 20 37887 390