

## NP6-180Ah

Valve-regulated lead-acid battery



# GENERAL PURPOSE SERIES

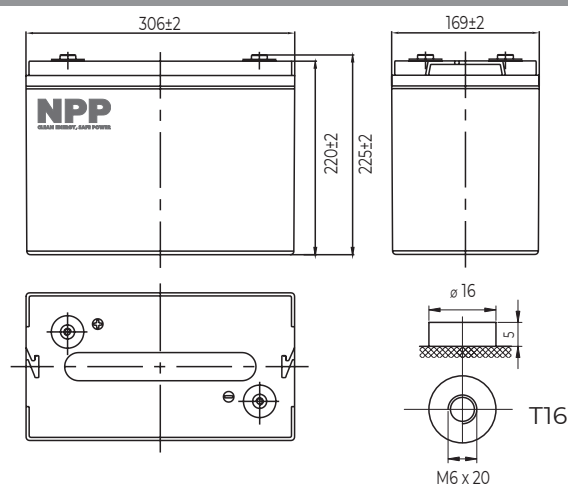
### Characteristics

Nominal voltage	6V (3 cells per unit)	
Nominal capacity at 10 hours rate/5.4V (25°C)	180Ah	
Capacity (25°C)	20 Hours rate/5.4V	190.8Ah
	5 Hours rate/5.4V	153.5Ah
Terminal type	T16	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	2.2mΩ	
Dimensions	Length	306±2mm (12.05inch)
	Width	169±2mm (6.65inch)
	Height	220±2mm (8.66inch)
	Total height	225±2mm (8.86inch)
Design Life (stand-by)	JIS at 25°C	10 years
	Eurobat at 20°C	10-12 years
Weight	27.50kg (60.60lbs)±3%	
Nominal operating temperature	25±3°C (77°F±5)	
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	6.75V~6.90V	
Cyclic charging voltage at 25°C	7.25V~7.50V	
Temperature compensation	Float charge	-9 mV/°C/Block
	Cycle charge	-15 mV/°C/Block
Max. charging current (A)	54A	
Max. discharge current for 5 seconds	1250A	
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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	392	302	181	111	65.8	47.4	37.8	32.3	22.2	18.3	9.71
4.95V	381	295	177	110	65.4	47.1	37.6	32.1	22.1	18.3	9.69
5.10V	365	284	172	107	64.8	46.8	37.3	31.9	21.9	18.2	9.66
5.25V	349	275	168	103	63.8	46.4	37.1	31.7	21.8	18.1	9.61
5.40V	330	260	162	100	62.2	45.0	36.0	30.7	21.1	18.0	9.54

### Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	2119	1660	1015	634	381	279	222	191	132	109	58.3
4.95V	2055	1620	995	625	379	277	221	190	131	109	58.2
5.10V	1971	1561	964	609	375	275	220	189	130	109	58.0
5.25V	1886	1507	941	590	370	273	218	187	129	108	57.6
5.40V	1780	1428	906	571	360	265	211	182	125	107	57.2

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.

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