

NP6-4.5Ah

Valve-regulated lead-acid battery



GENERAL PURPOSE

SERIES

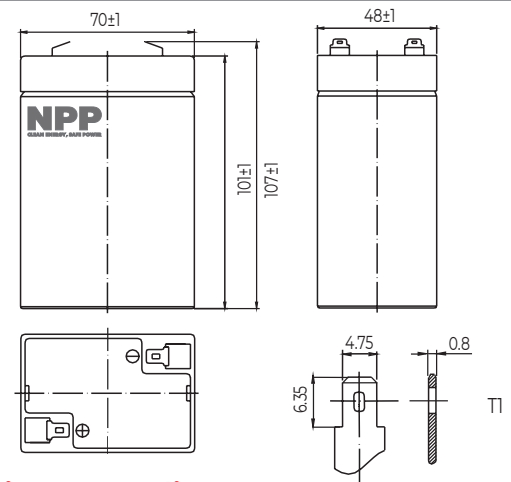
Characteristics

Nominal voltage	6V (3 cells per unit)	
Nominal capacity at 20 hours rate/3.5V (25°C)	4.5Ah	
Capacity (25°C)	10 Hours rate/3.5VV	4.2Ah
	1Hours rate/3.2V	4.3Ah
Terminal type	T1	
Torque	N/A	
Approx. internal resistance (25°C)	18mΩ	
Dimensions	Length	70±1mm (2.76inch)
	Width	48±1mm (1.89inch)
	Height	101±1mm (3.98inch)
	Total height	107±1mm (4.21inch)
Design Life (stand-by)	JIS at 25°C	5 years
	Eurobat at 20°C	3-5 years
Weight	0.76kg (1.85lbs)±5%	
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	6.80V~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)	1.35A	
Max. discharge current for 5 seconds	68A	
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	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
4.80V	17.2	10.9	8.51	4.79	2.95	1.61	1.12	0.92	0.78	0.43	0.23
4.95V	16.7	10.6	8.30	4.70	2.90	1.60	1.11	0.92	0.78	0.42	0.23
5.10V	16.0	10.1	7.99	4.55	2.83	1.59	1.10	0.91	0.77	0.42	0.23
5.25V	15.3	9.69	7.72	4.44	2.77	1.56	1.09	0.90	0.77	0.42	0.23
5.40V	14.4	9.15	7.31	4.28	2.69	1.52	1.06	0.88	0.75	0.41	0.22

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
4.80V	95.9	61.4	48.5	27.5	17.1	9.43	6.63	5.49	4.69	2.56	1.37
4.95V	93.0	59.4	47.3	26.9	16.8	9.38	6.59	5.46	4.66	2.55	1.36
5.10V	89.2	57.1	45.6	26.1	16.4	9.29	6.54	5.42	4.63	2.53	1.36
5.25V	85.4	54.7	44.0	25.5	16.1	9.15	6.50	5.39	4.59	2.52	1.35
5.40V	80.6	51.6	41.7	24.5	15.6	8.92	6.30	5.22	4.46	2.47	1.32

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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