

NP2-400Ah

Valve-regulated lead-acid battery



GENERAL PURPOSE SERIES

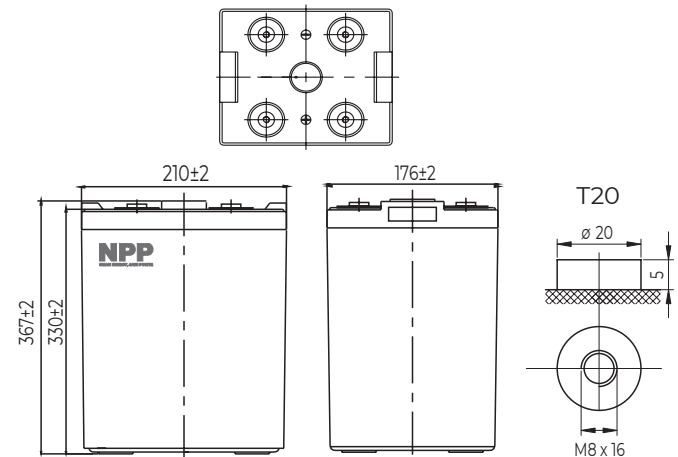
Characteristics

Nominal voltage	2V (1 cell per unit)	
Nominal capacity at 10 hours rate/1.80V (25°C)	402Ah	
Capacity (25°C)	20 Hours rate/1.80V	424Ah
	5 Hours rate/1.80V	347.5Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.6mΩ	
Dimensions	Length	210±2mm (8.27inch)
	Width	176±2mm (6.93inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Design Life (stand-by)	JIS at 25°C	15 years
	Eurobat at 20°C	>12 years
Weight	25.50kg (56.20lbs)±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	2.25V~2.30V	
Cyclic charging voltage at 25°C	2.40V~2.50V	
Temperature compensation	Float charge	-3 mV/°C/Cell
	Cycle charge	-5 mV/°C/Cell
Max. charging current (A)	80A	
Max. discharge current for 5 seconds	2500A	
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
1.60V/cell	556	364	252	147	106	84.9	73.0	62.8	49.6	40.9	21.6
1.65V/cell	543	357	244	147	105	84.4	72.6	62.5	49.3	40.8	21.5
1.70V/cell	523	346	237	145	105	83.8	72.1	62.0	48.9	40.7	21.5
1.75V/cell	505	337	229	143	104	83.2	71.6	61.6	48.6	40.5	21.3
1.80V/cell	478	325	222	139	101	80.7	69.5	59.8	47.1	40.2	21.2

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1017	681	479	284	208	166	144	124	98.6	81.4	43.2
1.65V/cell	993	667	464	283	207	165	143	123	98.1	81.3	43.1
1.70V/cell	956	647	450	280	205	164	142	122	97.4	81.0	43.0
1.75V/cell	924	631	436	276	204	163	141	121	96.7	80.6	42.7
1.80V/cell	875	608	421	269	198	158	137	118	93.8	80.0	42.4

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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