

NP2-800Ah

Valve-regulated lead-acid battery



GENERAL PURPOSE SERIES

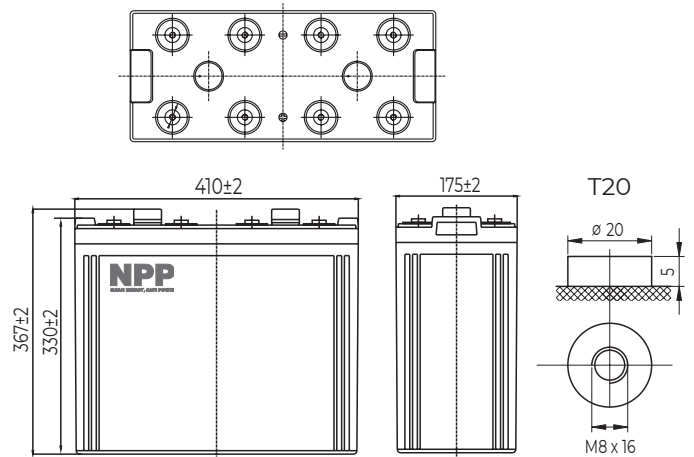
Characteristics

Nominal voltage	2V (1 cell per unit)	
Nominal capacity at 10 hours rate/1.80V (25°C)	800Ah	
Capacity (25°C)	20 Hours rate/1.80V	848Ah
	5 Hours rate/1.80V	695Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.35mΩ	
Dimensions	Length	410±2mm (16.14inch)
	Width	175±2mm (6.89inch)
	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	50.50kg (111.30lbs)±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)	160A	
Max. discharge current for 5 seconds	4400A	
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	1112	728	504	295	212	170	146	126	99.1	81.8	43.2
1.65V/cell	1085	713	489	293	211	169	145	125	98.6	81.7	43.1
1.70V/cell	1045	692	474	290	209	168	144	124	97.9	81.4	43.0
1.75V/cell	1010	675	459	286	208	166	143	123	97.2	81.0	42.7
1.80V/cell	956	650	444	279	202	161	139	120	94.3	80.4	42.4

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	2035	1361	958	569	416	333	288	248	197	163	86.3
1.65V/cell	1986	1334	929	566	413	331	286	246	196	163	86.2
1.70V/cell	1913	1293	900	560	411	328	284	244	195	162	85.9
1.75V/cell	1848	1262	871	552	408	326	282	243	193	161	85.4
1.80V/cell	1750	1216	843	538	395	316	274	235	188	160	84.8

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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