

NPD2-800Ah

Valve-regulated lead-acid battery



DEEP CYCLE SERIES

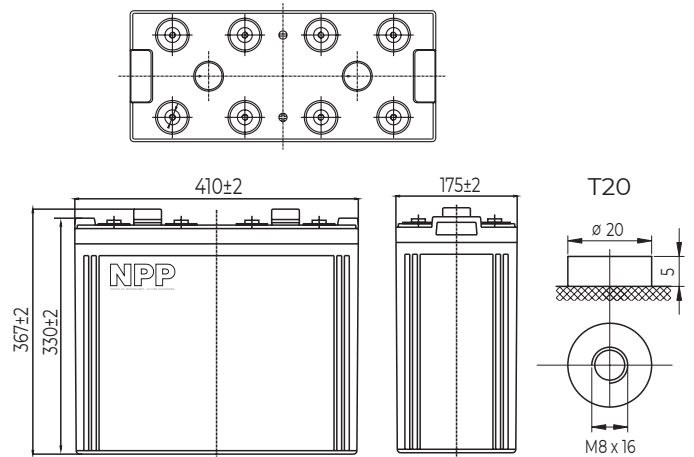
Characteristics

Nominal voltage	2V (2 cells per unit)	
Nominal capacity at 10 hours rate/1.8V (25°C)	844Ah	
Capacity (25°C)	20 Hours rate/1.8V	890Ah
	5 Hours rate/1.8V	730Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.35 mΩ	
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	53.00kg (116.80lbs)±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	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)	160.0A	
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 Deep Cycle Series are manufactured specifically to provide outstanding performance in deep cycling applications. The batteries are designed using enhanced alloy contents plates and active paste materials.

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	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.60V/cell	1168	764	529	309	223	178	153	132	104	85.9	45.3
1.65V/cell	1140	749	513	308	221	177	152	131	103	85.8	45.2
1.70V/cell	1098	726	497	305	220	176	151	130	103	85.5	45.1
1.75V/cell	1060	709	482	300	218	175	150	129	102	85.0	44.8
1.80V/cell	1004	683	466	293	212	169	146	125	99	84.4	44.5

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.60V/cell	2137	1429	1005	597	437	349	302	260	207	171	90.6
1.65V/cell	2085	1401	975	594	434	347	300	258	206	171	90.5
1.70V/cell	2009	1358	945	588	431	345	298	257	205	170	90.2
1.75V/cell	1940	1325	915	580	428	342	296	255	203	169	89.7
1.80V/cell	1838	1276	885	565	415	332	287	247	197	168	89.0

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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