

NPG2-800Ah

Valve-regulated lead-acid battery



DEEP CYCLE GEL SERIES

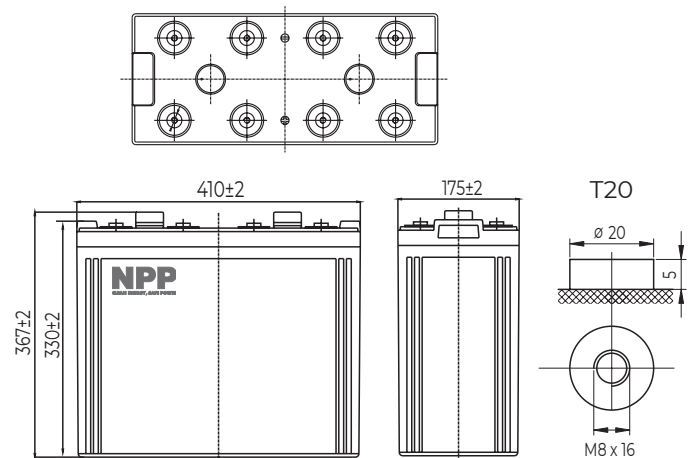
Characteristics

Nominal voltage	2V (1 cell per unit)	
Nominal capacity at 10 hours rate/1.8V (25°C)	800Ah	
Capacity (25°C)	20 Hours rate/1.8V	840Ah
	5 Hours rate/1.8V	650Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.4 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	18 years
	Eurobat at 20°C	>12 years
Weight	53.00kg (116.80 lbs)±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~2.45V	
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 AGM GEL Series are manufactured following the highest demands in the deep cycle and renewable energy applications. The batteries use colloidal or foamed silica gel to immobilize the electrolyte, which further enhances the cycling stability. Available in top and front terminal types.

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 Gel	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	1000	696	480	288	209	165	137	121	96.3	81.4	42.8
1.65V/cell	976	682	470	287	208	164	136	120	95.7	81.3	42.7
1.70V/cell	940	661	456	284	206	163	135	119	95.1	81.0	42.5
1.75V/cell	908	645	446	280	205	162	134	118	94.4	80.6	42.3
1.80V/cell	860	622	432	273	201	157	130	115	91.6	80.0	42.0

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	1830	1302	912	556	409	323	270	238	192	162	85.5
1.65V/cell	1786	1275	894	553	407	321	268	237	190	162	85.3
1.70V/cell	1720	1236	866	548	404	319	267	235	189	161	85.1
1.75V/cell	1662	1207	848	540	401	317	265	233	188	160	84.6
1.80V/cell	1574	1162	821	526	393	307	257	226	182	159	84.0

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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