



NPG2-2000Ah

Valve-regulated lead-acid battery



DEEP CYCLE GEL SERIES

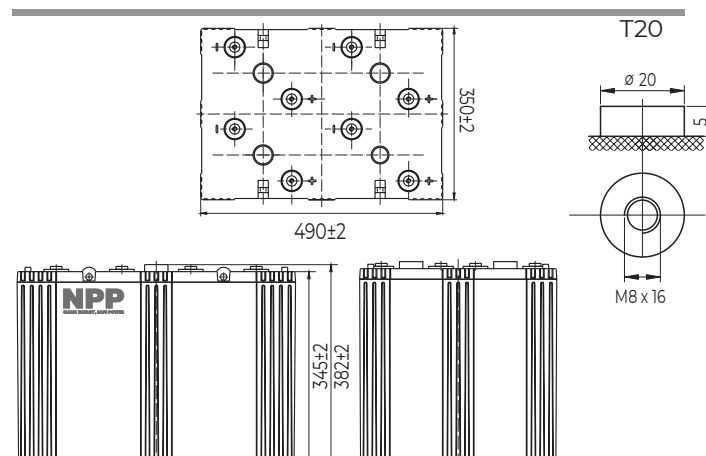
Characteristics

Nominal voltage	2V (1 cell per unit)	
Nominal capacity at 10 hours rate/1.8V (25°C)	2000Ah	
Capacity (25°C)	20 Hours rate/1.8V	2100Ah
	5 Hours rate/1.8V	1630Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.2 mΩ	
Dimensions	Length	490±2mm (19.29inch)
	Width	350±2mm (13.78inch)
	Height	345±2mm (13.58inch)
	Total height	382±2mm (15.04inch)
Design Life (stand-by)	JIS at 25°C	18 years
	Eurobat at 20°C	>12 years
Weight	131.0kg (288.80 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)	400A	
Max. discharge current for 5 seconds	10000A	
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	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	1740	1200	721	522	412	343	302	241	204	107	91.8
1.65V/cell	1705	1176	716	519	410	341	300	239	203	107	91.6
1.70V/cell	1653	1140	710	516	407	338	298	238	203	106	91.4
1.75V/cell	1613	1116	699	512	404	336	296	236	201	106	90.8
1.80V/cell	1554	1080	682	502	392	326	287	229	200	105	90.2

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	3254	2280	1391	1024	808	675	595	479	405	214	185
1.65V/cell	3189	2234	1383	1018	803	671	591	476	404	213	184
1.70V/cell	3091	2166	1370	1011	797	667	587	473	403	213	184
1.75V/cell	3016	2120	1350	1004	792	662	583	470	401	211	183
1.80V/cell	2906	2052	1315	983	768	642	566	456	398	210	181

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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