



NPG2-500Ah

Valve-regulated lead-acid battery



DEEP CYCLE GEL SERIES

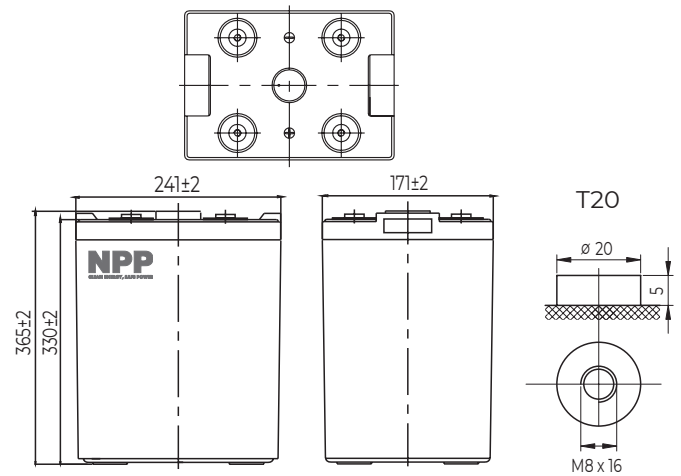
Characteristics

Nominal voltage	2V (1 cell per unit)	
Nominal capacity at 10 hours rate/1.8V (25°C)	500Ah	
Capacity (25°C)	20 Hours rate/1.8V	526Ah
	5 Hours rate/1.8V	407.5Ah
Terminal type	T20	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	0.55 mΩ	
Dimensions	Length	241±2mm (9.49inch)
	Width	171±2mm (6.73inch)
	Height	330±2mm (12.99inch)
	Total height	365±2mm (14.37inch)
Design Life (stand-by)	JIS at 25°C	18 years
	Eurobat at 20°C	>12 years
Weight	31.50kg (69.40 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)	100A	
Max. discharge current for 5 seconds	3000A	
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	625	435	300	180	131	103	85.7	75.5	60.2	50.9	26.7
1.65V/cell	610	426	294	179	130	102	85.2	75.0	59.8	50.8	26.7
1.70V/cell	588	413	285	178	129	102	84.6	74.5	59.4	50.7	26.6
1.75V/cell	568	403	279	175	128	101	84.0	74.0	59.0	50.4	26.4
1.80V/cell	538	388	270	170	125	98	81.5	71.8	57.2	50.0	26.3

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	1144	813	570	348	256	202	169	149	120	101	53.4
1.65V/cell	1116	797	559	346	254	201	168	148	119	101	53.3
1.70V/cell	1075	773	542	343	253	199	167	147	118	101	53.2
1.75V/cell	1039	754	530	337	251	198	165	146	117	100	52.9
1.80V/cell	984	726	513	329	246	192	161	141	114	99.5	52.5

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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