





SERIES





DEEP CYCLE GEL







NPG12-40Ah

Valve-regulated lead-acid battery

Characteristics

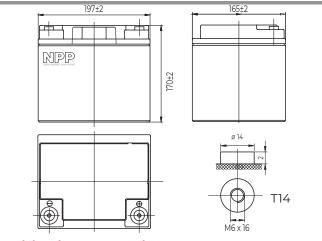
Construction

Nominal voltage	12V (6 cell per unit)				
Nominal capacity	40Ah				
Canacity (2F9C)	20 Hours rate/10.8V	42.4Ah			
Capacity (25°C)	5 Hours rate/10.8V	33Ah			
Terminal type		T14			
Torque	5.1±0.6N.m				
Approx. internal re	8.5 mΩ				
	Length	197±2mm (7.76inch)			
D:	Width	165±2mm (6.50inch)			
Dimensions	Height	170±2mm (6.69inch)			
	Total height	170±2mm (6.69inch)			
Design Life	JIS at 25°C	12 years			
(stand-by)	Eurobat at 20°C	10/12 years			
Weight	13.50kg (29.80lbs)±3%				
Nominal operating	25±3°C (77°F±5)				
Operating	Discharge	-15°C~50°C (5°F~122°F)			
temperature	Charge	-10°C~50°C (14°F~122°F)			
range	Storage	-20°C~50°C (-4°F~122°F)			
Float charging vol	13.5V~13.8V				
Cyclic charging vo	14.5V~14.7V				
Temperature	Float charge	-18 mV/°C/Block			
compensation	Cycle charge	-30 mV/°C/Block			
Max. charging cur	8A				
Max. discharge cu	400A				
Self discharge rate	≤3%/month				
Battery container	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

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Sefety 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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	78.0	64.0	38.8	24.0	14.6	10.4	8.16	6.94	4.90	4.07	2.16
9.90V	75.7	62.5	38.0	23.6	14.5	10.3	8.11	6.90	4.87	4.06	2.15
10.2V	72.5	60.2	36.9	23.0	14.4	10.3	8.06	6.85	4.83	4.05	2.15
10.5V	69.4	58.1	36.0	22.3	14.2	10.2	8.00	6.80	4.8	4.03	2.13
10.8V	65.5	55.0	34.6	21.6	13.8	10.0	7.76	6.60	4.66	4.00	2.12

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	842	703	435	274	169	122	96.0	82.0	58.2	48.6	25.9
9.90V	817	686	427	269	168	122	95.4	81.5	57.8	48.5	25.8
10.2V	783	661	414	263	167	121	94.7	80.9	57.4	48.4	25.8
10.5V	750	638	404	254	164	120	94.1	80.4	57.0	48.1	25.6
10.8V	708	604	389	246	160	118	91.3	78.0	55.3	47.8	25.4

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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