

FTG12-105Ah

Valve-regulated lead-acid battery



FRONT TERMINAL SERIES

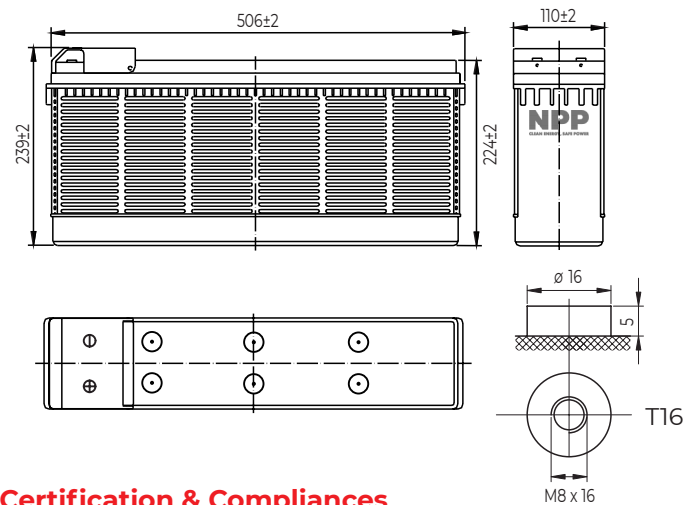
Characteristics

Nominal voltage	12V (6 cells per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	105Ah	
Capacity (25°C)	20 Hours rate/10.8V	111.4 Ah
	5 Hours rate/10.8V	86.5 Ah
Terminal type	T16	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	5.5 mΩ	
Dimensions	Length	506±2mm (19.92inch)
	Width	110±2mm (4.33inch)
	Height	224±2mm (8.82inch)
	Total height	239±2mm (9.41inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight	32.00kg (70.50lbs)±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	13.5V~13.8V	
Cyclic charging voltage at 25°C	14.4V~14.7V	
Temperature compensation	Float charge	-18mV/°C/Block
	Cycle charge	-30mV/°C/Block
Max. charging current (A)	21A	
Max. discharge current for 5 seconds	800A	
Self discharge rate (25°C)	≤3%/month	
Battery container ABS UL94-HB	V-0 optional	

Overview

NPP Power Front Terminal Series batteries are mainly used in the area of communication. By adopting a new AGM separator and centralized venting system, the battery can be installed in different positions while maintaining high reliability. Available in gel technology also.

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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	201	165	100	61.7	38.4	27.3	21.4	18.2	12.9	10.7	5.67
9.90V	195	161	97.8	60.8	38.1	27.1	21.3	18.1	12.8	10.7	5.65
10.2V	187	155	94.8	59.3	37.8	27.0	21.1	18.0	12.7	10.6	5.64
10.5V	179	149	92.5	57.4	37.2	26.8	21.0	17.9	12.6	10.6	5.60
10.8V	169	142	89.1	55.6	36.3	26.2	20.4	17.3	12.2	10.5	5.57

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	2167	1808	1120	704	444	321	252	215	153	128	68.0
9.90V	2102	1764	1098	693	442	319	250	214	152	127	67.8
10.2V	2015	1699	1064	676	438	317	249	212	151	127	67.6
10.5V	1929	1641	1038	655	431	315	247	211	150	126	67.2
10.8V	1820	1555	1000	633	420	309	240	205	145	125	66.8

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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