

## FT12-105Ah

Valve-regulated lead-acid battery



# FRONT TERMINAL SERIES

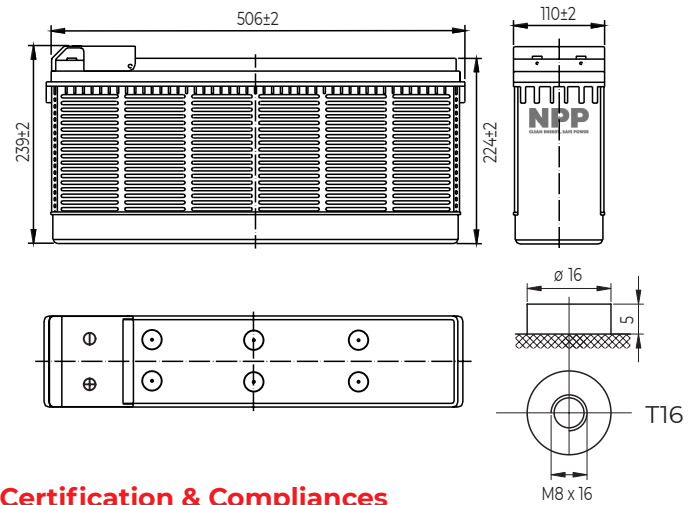
### Characteristics

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	89.5 Ah
Terminal type	T16	
Torque	12.3+/-2.5N.m	
Approx. internal resistance (25°C)	5.0 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°F±5)	
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	14.5V~15.0V	
Temperature compensation	Float charge	-18mV/°C/Block
	Cycle charge	-30mV/°C/Block
Max. charging current (A)	31.5A	
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	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	224	173	103	63.6	38.4	27.6	22.1	18.8	13	10.7	5.67
9.90V	218	169	101	62.6	38.1	27.5	21.9	18.7	12.9	10.7	5.65
10.2V	209	162	98.2	61	37.8	27.3	21.8	18.6	12.8	10.6	5.64
10.5V	200	157	95.9	59.1	37.2	27.1	21.6	18.5	12.7	10.6	5.6
10.8V	188	149	92.3	57.2	36.3	26.3	21	17.9	12.3	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	2423	1898	1160	725	444	325	259	223	154	128	68
9.90V	2350	1853	1137	714	442	323	258	221	153	127	67.8
10.2V	2253	1784	1102	696	438	321	256	220	152	127	67.6
10.5V	2156	1724	1076	674	431	319	254	218	151	126	67.2
10.8V	2035	1632	1036	652	420	309	247	212	146	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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