

FTG12-180Ah

Valve-regulated lead-acid battery



FRONT TERMINAL SERIES

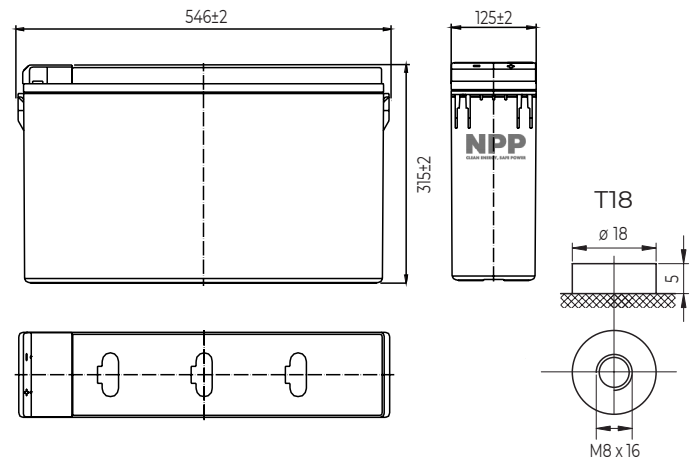
Characteristics

Nominal voltage	12V (6 cells per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	180Ah	
Capacity (25°C)	20 Hours rate/10.8V	190.8Ah
	5 Hours rate/10.8V	148.5Ah
Terminal type	T18	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	3.8 mΩ	
Dimensions	Length	546±2mm (21.50inch)
	Width	125±2mm (4.92inch)
	Height	315±2mm (12.40inch)
	Total height	315±2mm (12.40inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight	55.00kg (121.20lbs)±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)	36A	
Max. discharge current for 5 seconds	1300A	
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	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	282	171	106	65.8	46.8	36.7	31.2	27.5	22.0	18.3	9.71
9.90V	275	168	104	65.4	46.5	36.5	31.0	27.4	21.9	18.3	9.69
10.2V	265	163	102	64.8	46.2	36.3	30.8	27.2	21.8	18.2	9.66
10.5V	256	159	98.4	63.8	45.9	36.0	30.6	27.0	21.6	18.1	9.61
10.8V	243	153	95.3	62.2	45.0	34.9	29.7	26.2	21.0	18.0	9.54

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	3099	1920	1207	762	551	432	369	326	262	219	117
9.90V	3025	1881	1188	757	547	429	367	324	260	218	116
10.2V	2913	1824	1158	750	544	426	364	321	258	218	116
10.5V	2814	1780	1122	739	540	423	362	319	257	216	115
10.8V	2665	1714	1086	720	529	411	351	310	249	215	114

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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