

## FT12-180Ah

Valve-regulated lead-acid battery



# FRONT TERMINAL SERIES

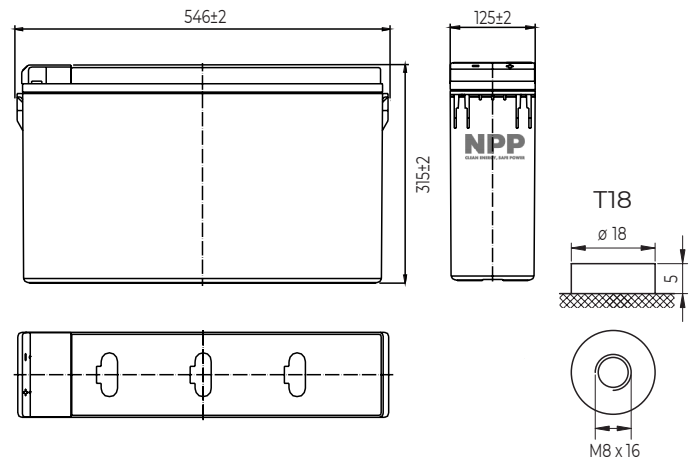
### Characteristics

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	153.5Ah
Terminal type	T18	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	3.5 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	14.5V~15.0V	
Temperature compensation	Float charge	-18mV/°C/Block
	Cycle charge	-30mV/°C/Block
Max. charging current (A)	54A	
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	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	296	177	109	65.8	47.4	37.8	32.3	28.1	22.2	18.3	9.71
9.90V	289	174	107	65.4	47.1	37.6	32.1	27.9	22.1	18.3	9.69
10.2V	279	168	105	64.8	46.8	37.3	31.9	27.7	21.9	18.2	9.66
10.5V	269	164	101	63.8	46.4	37.1	31.7	27.5	21.8	18.1	9.61
10.8V	255	158	98.1	62.2	45.0	36.0	30.7	26.7	21.1	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	3254	1989	1243	762	557	445	382	332	264	219	117
9.90V	3176	1949	1224	757	554	442	380	330	262	218	116
10.2V	3059	1890	1193	750	550	439	377	328	261	218	116
10.5V	2955	1844	1156	739	546	436	374	326	259	216	115
10.8V	2798	1776	1118	720	530	423	363	316	251	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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