

## FT12-200Ah

Valve-regulated lead-acid battery



# FRONT TERMINAL SERIES

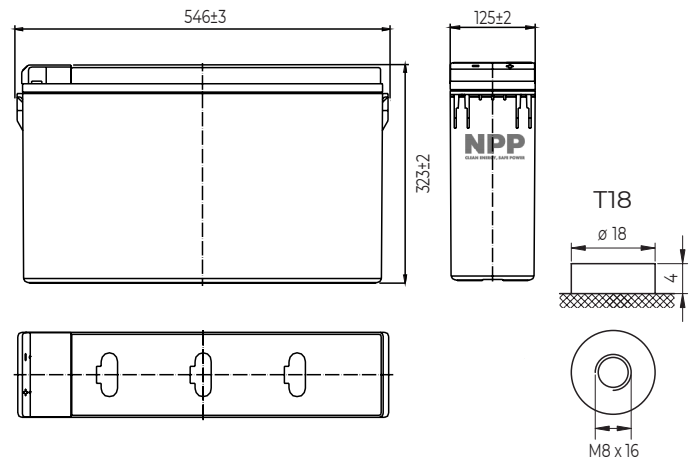
### Characteristics

Nominal voltage	12V (6 cells per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	200Ah	
Capacity (25°C)	20 Hours rate/10.8V	212Ah
	5 Hours rate/10.8V	170.5Ah
Terminal type	T18	
Torque	12.3±2.5N.m	
Approx. internal resistance (25°C)	3.5 mΩ	
Dimensions	Length	546±3mm (21.50inch)
	Width	125±2mm (4.92inch)
	Height	317±2mm (12.48inch)
	Total height	323±2mm (12.72inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight	60.50kg (133.40lbs)±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)	60A	
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	326	195	120	73.1	52.6	42.0	35.9	31.2	24.7	20.4	10.8
9.90V	318	191	118	72.6	52.3	41.8	35.7	31.0	24.5	20.3	10.8
10.2V	306	185	115	72.0	52.0	41.5	35.4	30.8	24.4	20.3	10.7
10.5V	296	181	111	70.9	51.6	41.2	35.2	30.6	24.2	20.1	10.7
10.8V	280	174	108	69.1	50.1	40.0	34.1	29.7	23.5	20.0	10.6

### 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	3579	2188	1367	846	619	494	424	369	293	243	129
9.90V	3493	2144	1346	841	615	491	422	367	292	243	129
10.2V	3364	2078	1312	834	611	488	419	364	290	242	129
10.5V	3249	2028	1271	821	607	485	416	362	287	240	128
10.8V	3078	1953	1230	800	589	470	404	351	279	239	127

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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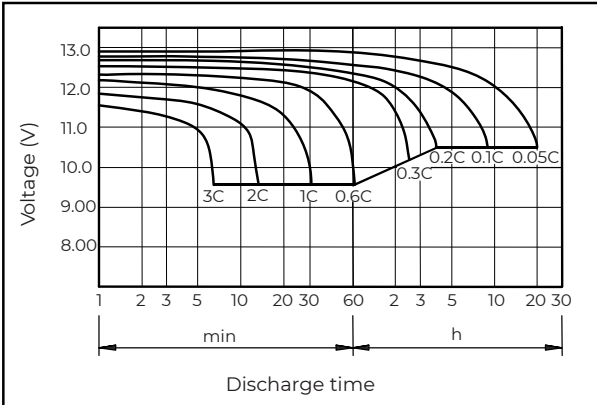
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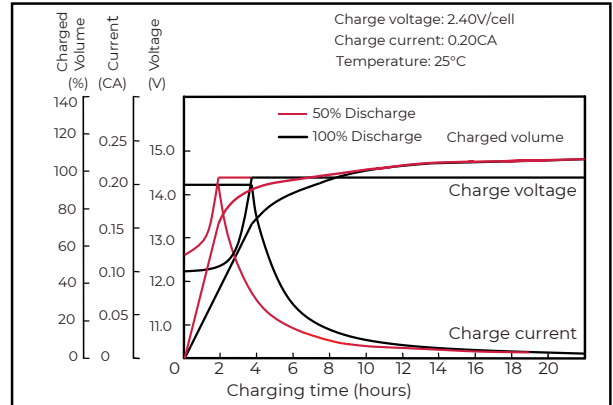
# FRONT TERMINAL

## SERIES

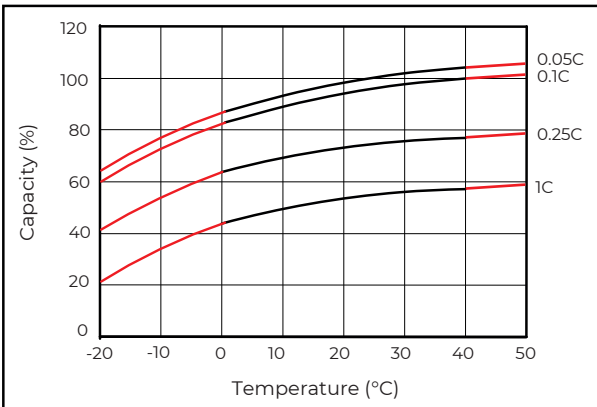
### Discharge characteristics (25°C)



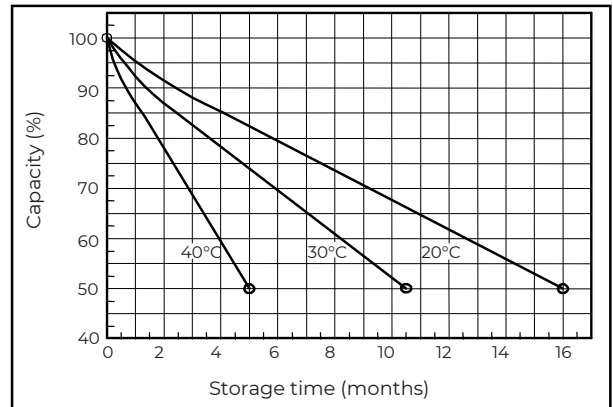
### Charging characteristics (25°C)



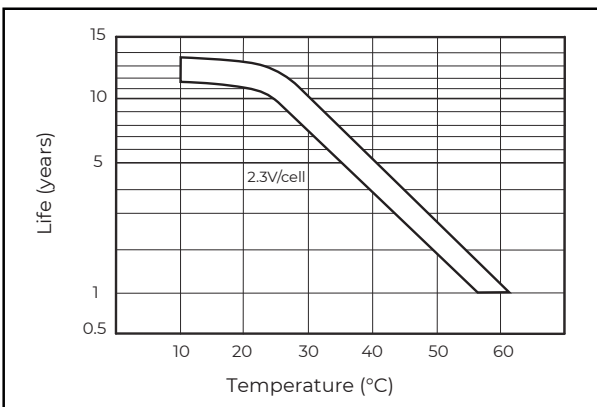
### Temperature effects on capacity



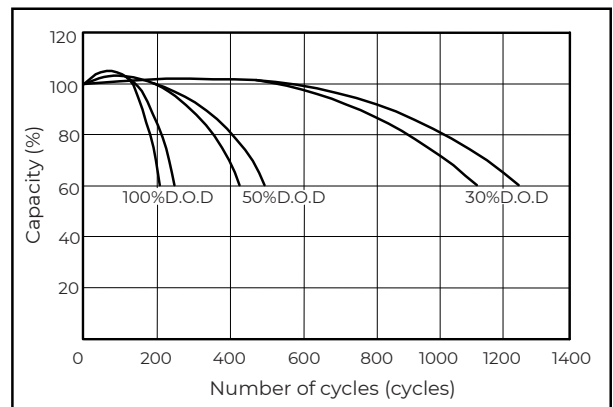
### Self-discharge characteristics



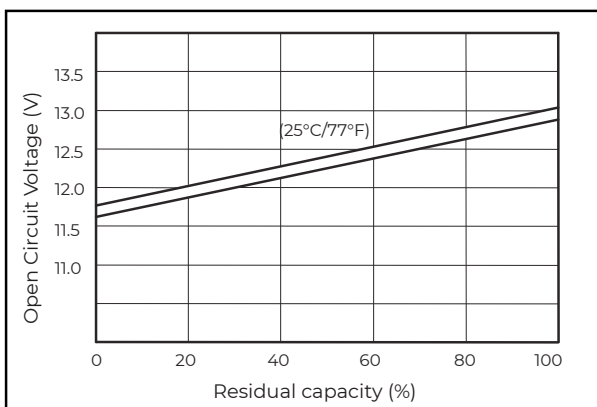
### Floating life on temperature



### Cycle life on D.O.D (25°C)



### Relationship for OCV and capacity (25°C)



### Charging voltage VS temperature

