

NPC12V180AH-FT

LEAD-ACID BATTERY

POWER AGM BATTERY

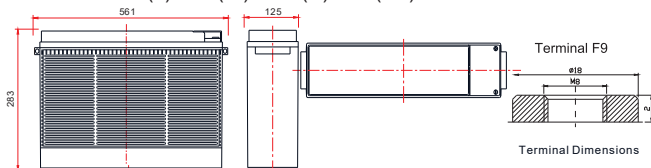


General Features

- > Narrow structure and front terminal design, suitable for 23-inch standard cabinets
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology
- > Long life



Dimension: 561(L)×125(W) ×283(H)×283(TH) Unit: mm



Applications

- > Telecom outdoor integration site
- > Power systems
- > UPS/EPS
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

Specification

Nominal Voltage	12V
Nominal Capacity	180Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 53.5kg (118lbs)
Container Material	ABS
Rated Capacity	180Ah 10Hour Rate (18.0A to 10.8V)
	148Ah 3Hour Rate (49.3A to 10.8V)
	120Ah 1Hour Rate (120A to 10.5V)
Internal resistance	Full charged at 25°C: 3.20mΩ
Max. Discharge Current	2160A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4 ~ 122°F)
	Charge: -20 ~50°C(-4 ~ 122°F)
	Storage: -20 ~50°C(-4 ~ 122°F)
Charge current:	Max. 45A ; Recom. 18A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.5V(-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V(-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

Constant Current Discharge Characteristics Unit: A (25°C 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	647	348	211	123	70.9	51.5	34.6	22.6	19.1	10.0
1.65V	627	337	208	122	70.5	50.9	34.2	22.5	18.9	10.0
1.70V	602	329	204	122	70.0	50.2	33.9	22.3	18.8	9.9
1.75V	554	319	202	120	69.0	49.7	33.5	22.1	18.6	9.9
1.80V	497	298	194	117	67.6	49.3	32.5	21.9	18.4	9.8
1.85V	443	265	176	108	64.3	46.4	30.9	21.0	17.9	9.7

Constant Power Discharge Characteristics Unit: W/cell (25°C 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	1084	612	383	234	134	97.9	65.5	44.1	36.7	19.8
1.65V	1043	602	378	232	134	96.6	65.2	43.8	36.3	19.8
1.70V	1037	595	378	231	134	96.1	64.6	43.6	36.0	19.7
1.75V	968	591	377	228	133	95.6	64.3	43.1	35.6	19.6
1.80V	888	559	368	226	132	95.2	63.5	42.8	35.3	19.5
1.85V	794	499	338	210	126	90.5	60.6	41.3	34.7	19.3

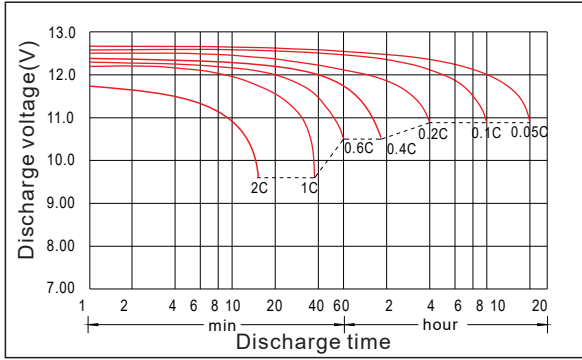
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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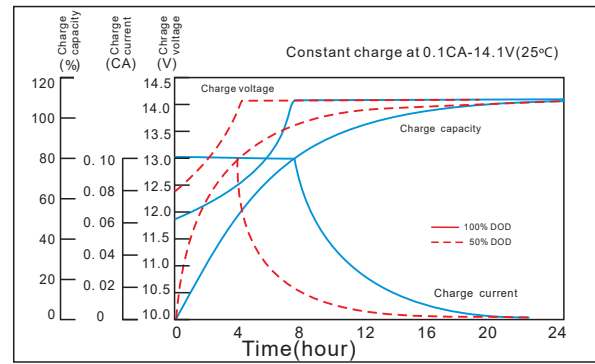
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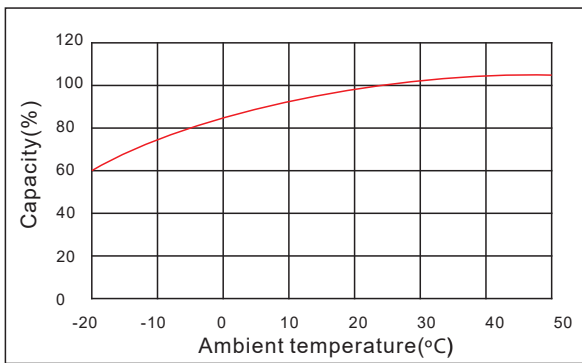
Discharge characteristic



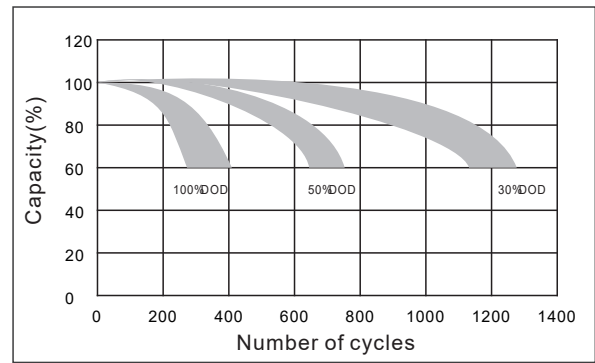
Charging characteristic



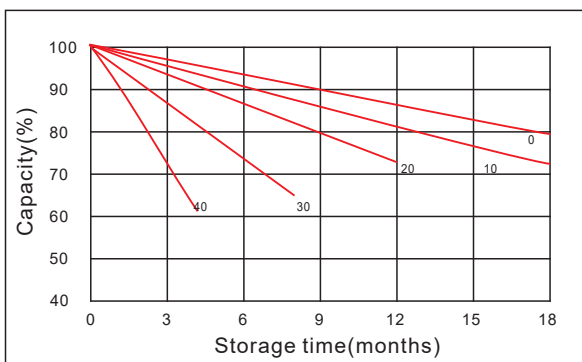
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

