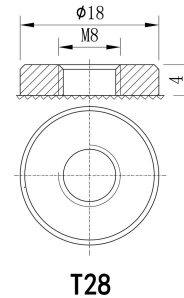


AGM Deep Cycle Battery



Model: BT-FT-180-12(12V180AH)



Application

- ☆ UPS power supply
- ☆ Telecom Equipment
- ☆ Power station
- ☆ Solar/wind energy storage system

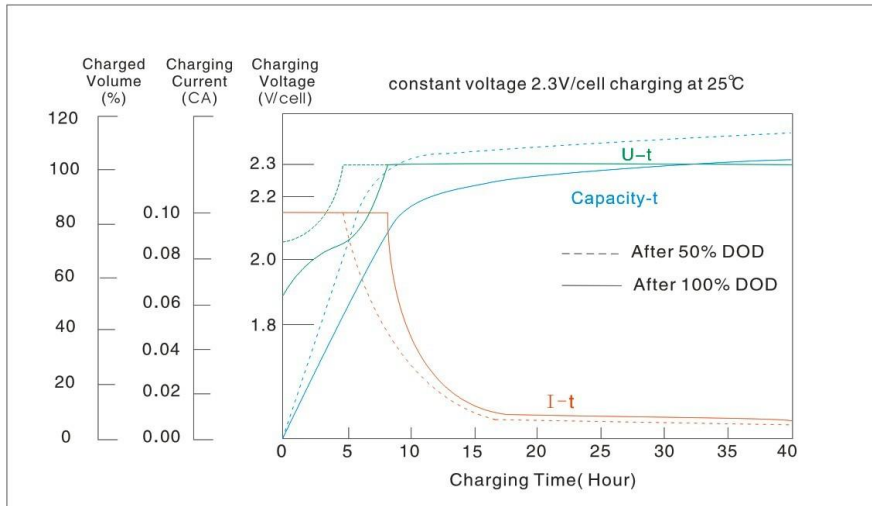
General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge
- ☆ Wide operating temperature range from -10°C-40°C

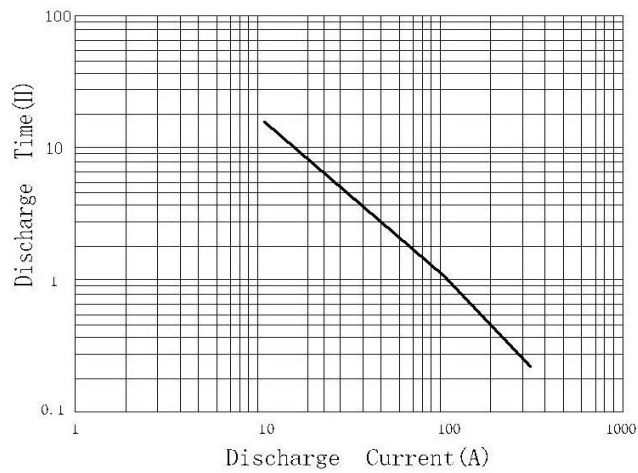
PHYSICAL SPECIFICATIONS		
Nominal Voltage	12V	
Nominal Capacity (20HR)	180AH	
Dimensions	Length	561±3mm
	Width	125±2mm
	Container height	317±3mm
	Total Height (with terminal)	317±3mm
Weight±3%	Approx55.5Kg(122.3lbs)	
Internal Resistance(In full charge status)	≈3.95mΩ	
Standard Terminals	T28	

Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than45A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F) . 3. Hold at 14.1V to 14.4V until current drop to under 1.08A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 45A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation	

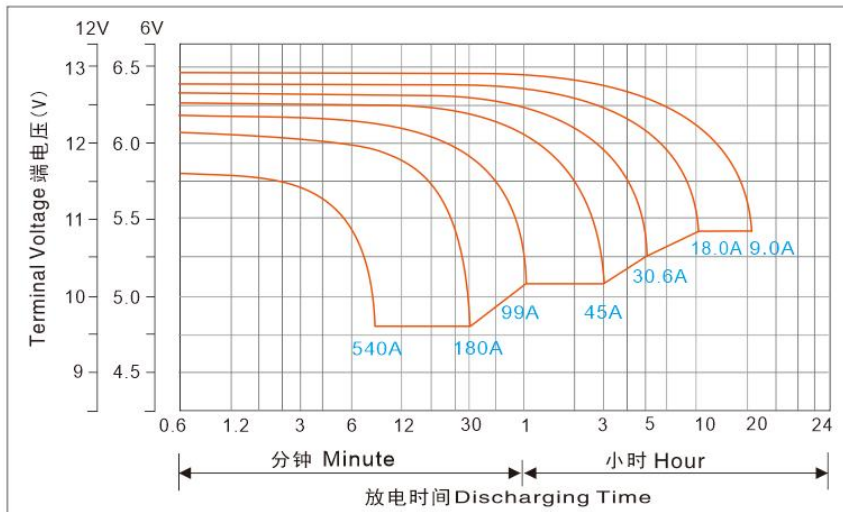
Charge Characteristics



Discharge Current & Discharge Duration Time (25°C/77°F)



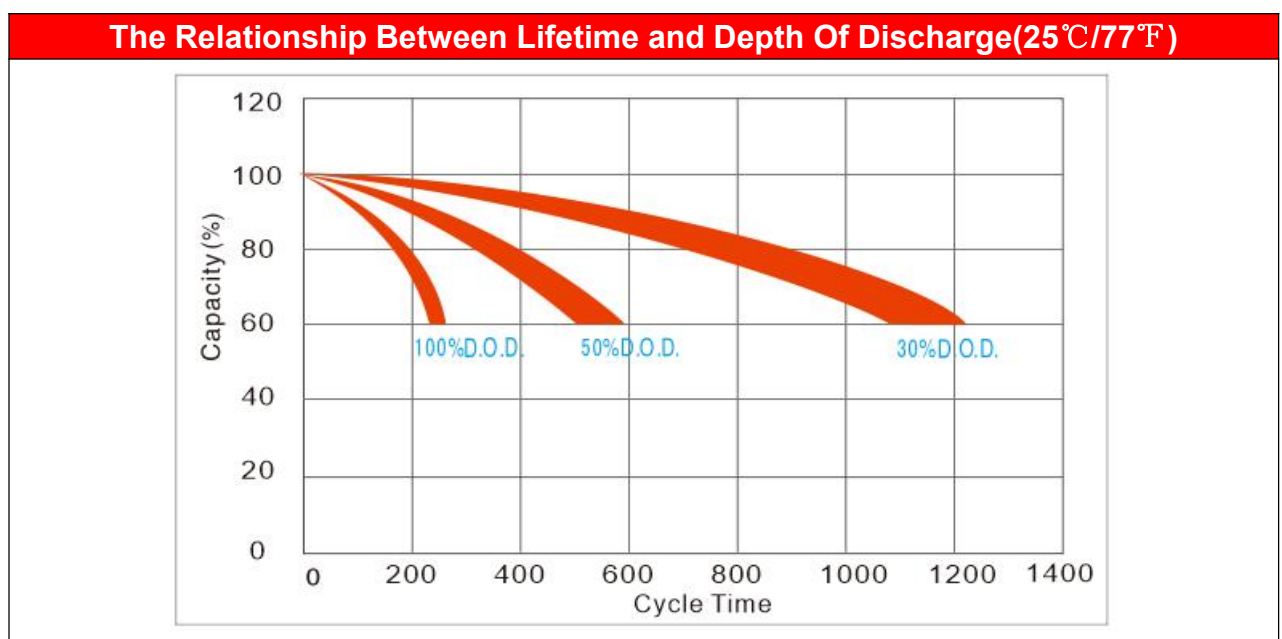
Discharge Characteristic (25°C/77°F)



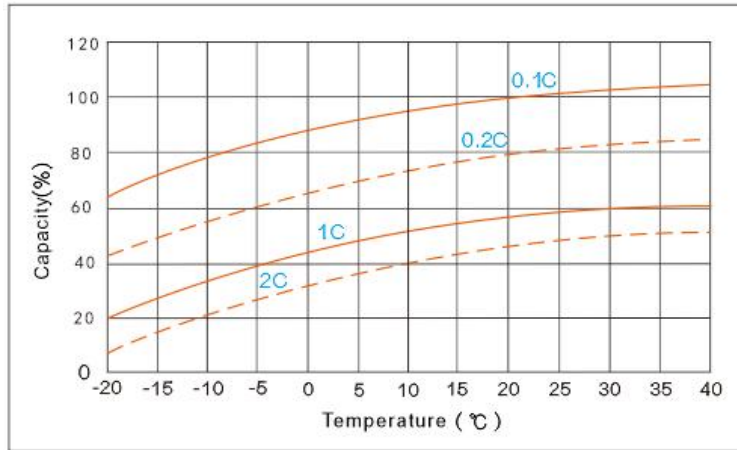
ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(9.0A)	185.4AH
	10 hour rate(18A)	181AH
	5 hour rate(30.6A)	153AH
	3 hour rate(45A)	136AH
	1 hour rate (99A)	100AH
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

Constant Current Discharge Data Sheet (Amperes at 25°C)													
End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	567	432	326	173	160	113	88.8	74.4	46.6	32.4	23.0	18.8	9.63
10.50	504	396	304	166	153	108	85.3	71.7	45.1	30.9	21.8	18.5	9.54
10.80	468	360	285	160	146	104	81.9	68.9	43.5	29.6	20.7	18.2	9.41

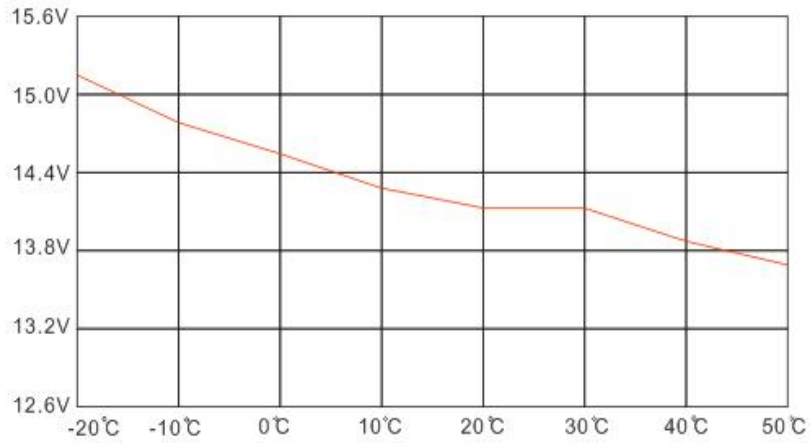
Constant Power Discharge Data Sheet (Watt at 25°C)													
End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	5634	4770	3433	2157	1620	1408	1027	772	576	371	275	234	123
10.50	5418	4050	3082	2107	1584	1386	1011	747	558	360	272	227	119
10.80	5040	3780	2942	2061	1530	1323	965	722	538	347	268	216	116



Capacity Curve at Different Temperature



Charge Voltage VS Ambient Temperature Curve



Storage Characteristics

