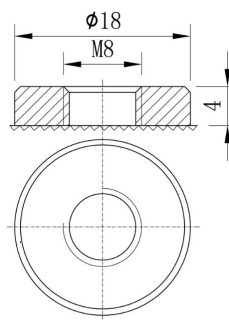


## AGM Deep Cycle Battery

Model: BT-FT-75-12 (12V75AH)



T23

### Application

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

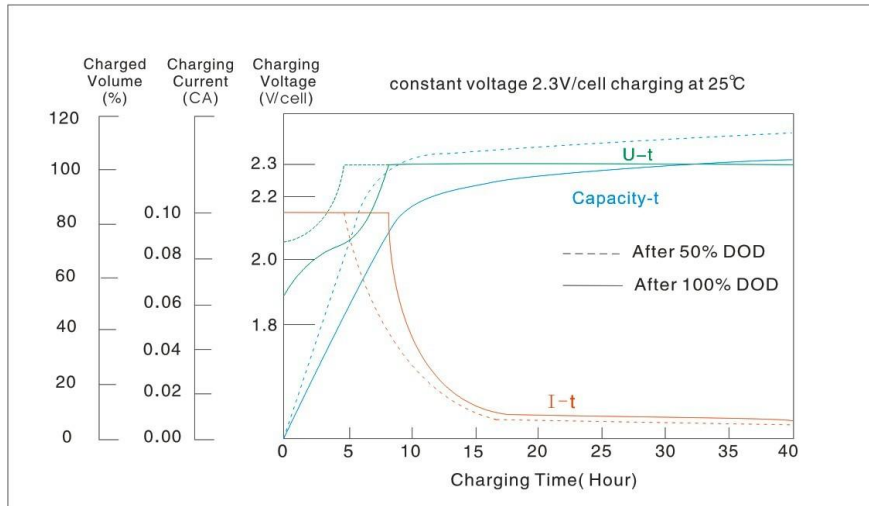
### General Features

- ☆ 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

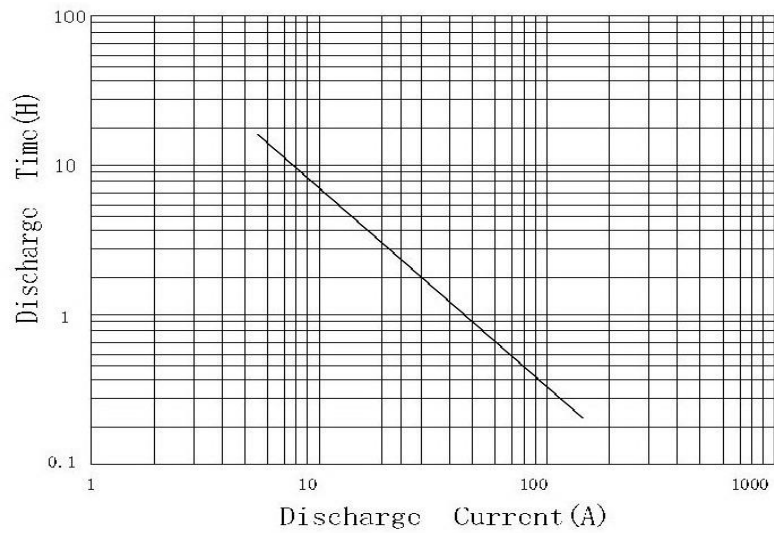
PHYSICAL SPECIFICATIONS		
<b>Nominal Voltage</b>		12V
<b>Nominal Capacity (10HR)</b>		75AH
<b>Dimensions</b>	<b>Length</b>	562±3mm
	<b>Width</b>	115±1mm
	<b>Container height</b>	187±2mm
	<b>Total Height (with terminal)</b>	196±2mm
<b>Weight±3%</b>		Approx 25.5Kg(56.2lbs)
<b>Internal Resistance(In full charge status)</b>		≈9.5mΩ
<b>Standard Terminals</b>		T23(standard)

Constant – Voltage Charge	
<b>Cycle application</b>	<ol style="list-style-type: none"> <li>1. Limit initial current less than 18.75A.</li> <li>2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F) .</li> <li>3. Hold at 14.1V to 14.4V until current drop to under 0.45A for at least 3 hours.</li> <li>4. Temperature compensation coefficient of charging voltage is -30mV/°C.</li> </ol>
<b>Standby service</b>	<ol style="list-style-type: none"> <li>1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 18.75A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.</li> <li>2. Temperature compensation coefficient of charging voltage is -18mV/°C</li> </ol>
<p>NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

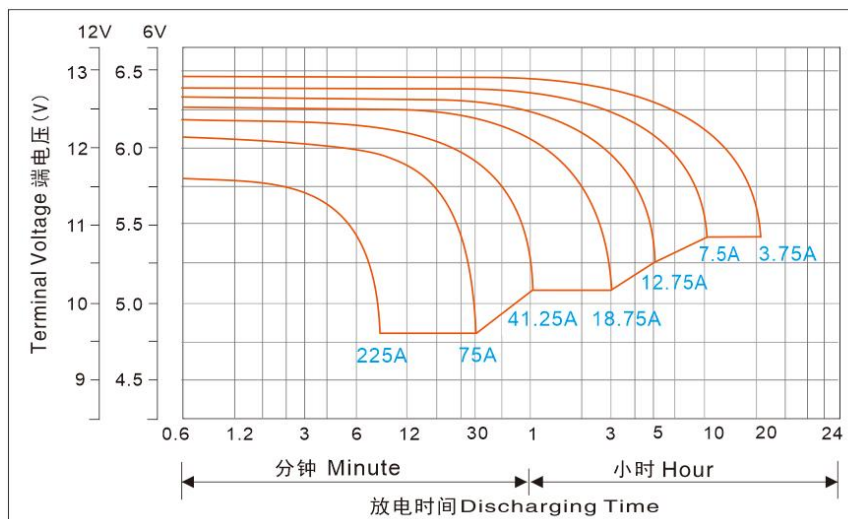
## Charge Characteristics



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



## Discharge Characteristic (25°C/77°F)



## ELECTRICAL SPECIFICATIONS

<b>Rated Capacity</b>	20 hour rate(3.75A)	77.5AH
	10 hour rate(7.5A)	75.0AH
	5 hour rate(12.75A)	64.0AH
	3 hour rate(18.75A)	56.5AH
	1 hour rate (41.25A)	42.0AH
<b>Capacity affected by Temperature (10Hour Rate)</b>	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

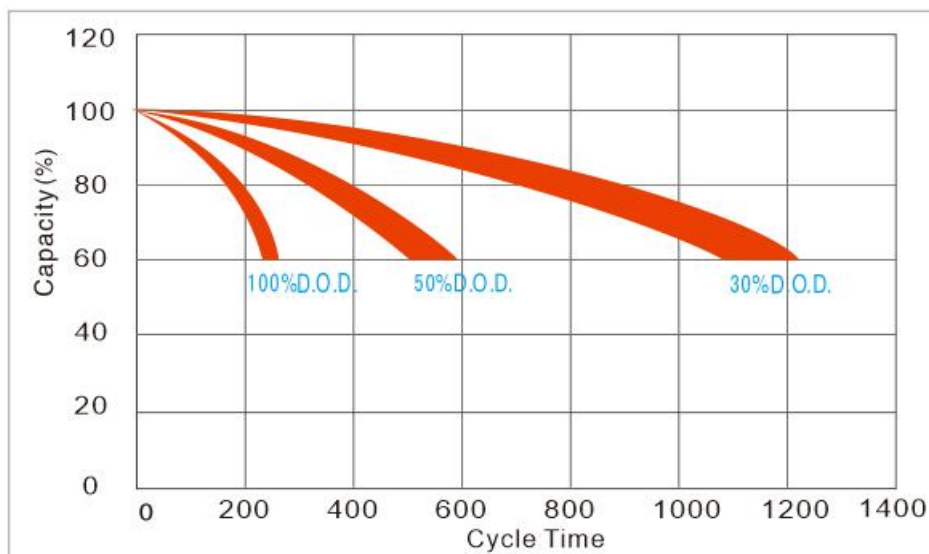
## Constant Current Discharge Data Sheet ( Amperes at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>10.20</b>	233	177	134	70.9	65.8	46.2	36.5	30.6	19.14	13.29	9.46	7.83	4.18
<b>10.50</b>	207	163	125	68.0	62.9	44.3	35.1	29.5	18.53	12.69	8.95	7.69	4.10
<b>10.80</b>	192	148	117	65.7	59.9	42.5	33.6	28.3	17.88	12.15	8.50	7.47	3.98

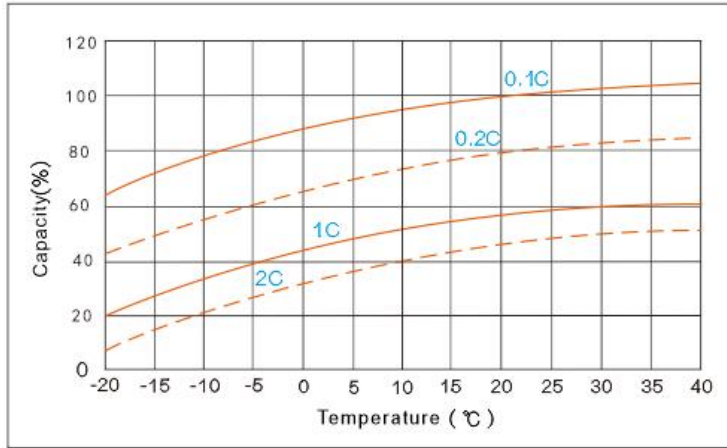
## Constant Power Discharge Data Sheet ( Watt at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>10.20</b>	2314	1959	1422	886	665	578	422	317	237	153	113	96.1	50.4
<b>10.50</b>	2225	1664	1277	865	650	570	415	306	229	148	111	93.1	48.8
<b>10.80</b>	2070	1552	1219	847	629	543	396	297	221	143	110	88.7	47.7

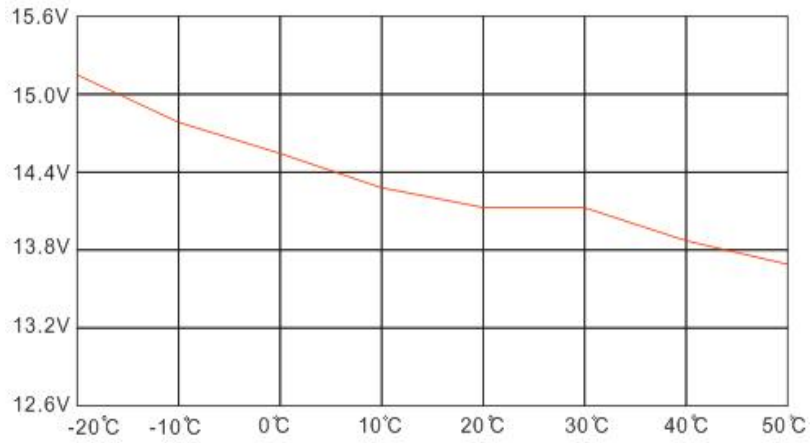
## The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



### Capacity Curve at Different Temperature



### Charge Voltage VS Ambient Temperature Curve



### Storage Characteristics

