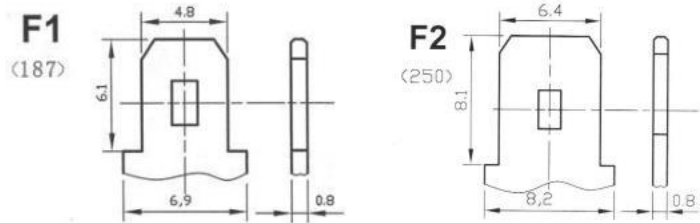


Valve Regulated Lead-Acid Battery



Model: BT-6M7.0AC(6V7.0AH)



Application

- ☆ Measuring equipment and instrument
- ☆ Telephone sets
- ☆ Lighting equipment
- ☆ Security systems
- ☆ UPS power supply

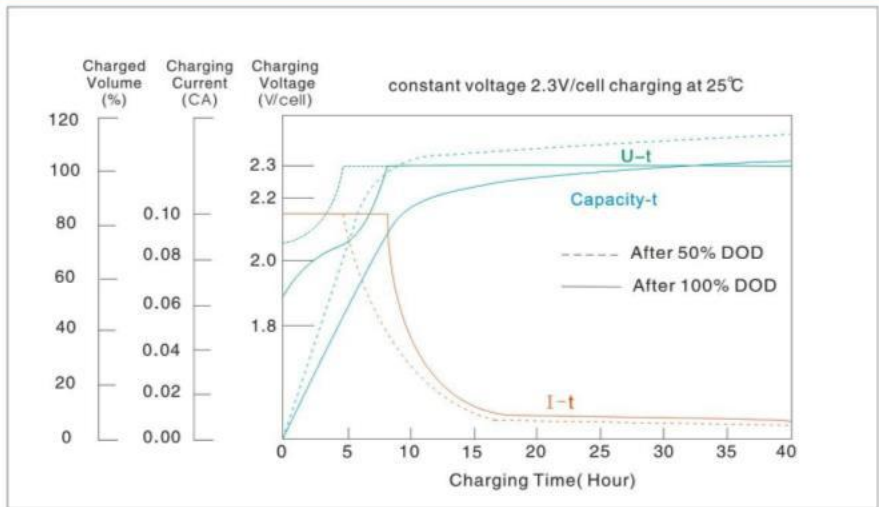
General Features

- ☆ Designed floating charging service life: 8 years (25°C)
- ☆ Sealed and maintenance free operation
- ☆ Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- ☆ Wide operating temperature range from 0°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

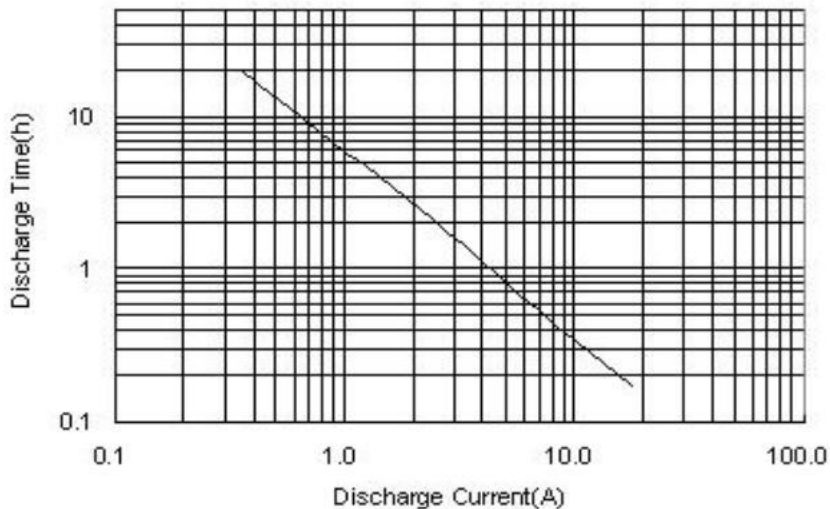
PHYSICAL SPECIFICATIONS	
Nominal Voltage	
6V	
Nominal Capacity (20HR)	
7.0AH	
Dimensions	Length
	151±2mm
	Width
	36±1mm
	Container height
	93±1mm
	Total Height (with terminal)
	98±1mm
Weight±3%	
Approx 1.12Kg(2.46lbs)	
Internal Resistance(In full charge status)	
≈10.5mΩ	
Standard Terminals	
F1/F2(standard)	

Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> Limit initial current less than 1.75A. Charge until battery voltage (under charge) reaches 7.05V to 7.2V at 25°C (77F) . Hold at 7.05V to 7.2V until current drop to under 0.042A for at least 3 hours. Temperature compensation coefficient of charging voltage is -15mV/°C.
Standby service	<ol style="list-style-type: none"> Hold battery across constant voltage source of 6.8 to 6.9 volts with current limit 1.75A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. Temperature compensation coefficient of charging voltage is -9mV/°C
<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>	

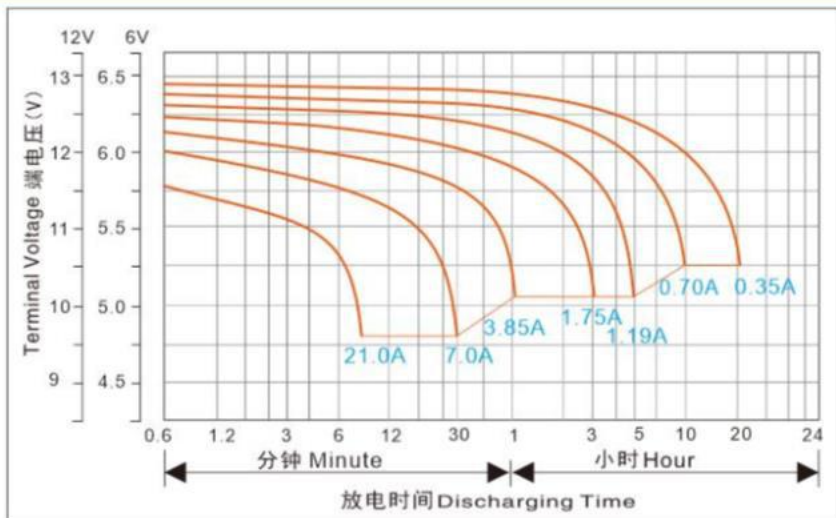
Charge Characteristics



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



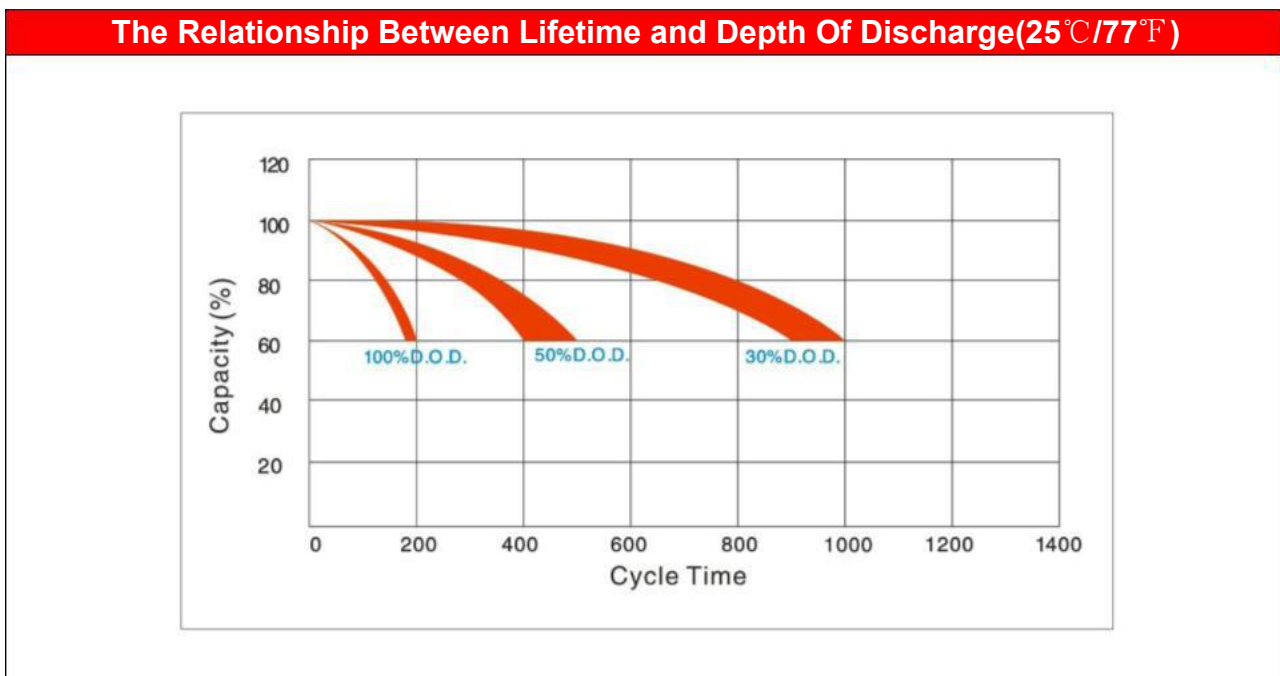
Discharge Characteristic (25°C/77°F)



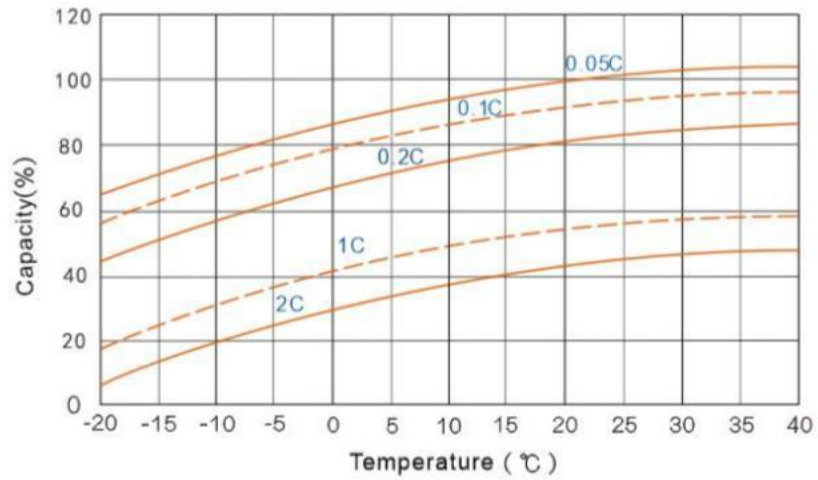
ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(350mA)	7.01AH
	10 hour rate(700mA)	6.50AH
	5 hour rate(1.19A)	5.70AH
	27 minute rate(7.0A)	3.15AH
	7 minute rate(21A)	2.45AH
Capacity affected by Temperature (20Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

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
5.10	26.3	17.1	13.4	6.84	4.96	4.24	3.38	2.52	1.90	1.22	0.820	0.672	0.360
5.25	26.1	16.9	13.3	6.78	4.91	4.21	3.32	2.43	1.84	1.19	0.810	0.666	0.356
5.40	25.8	16.7	13.1	6.71	4.86	4.18	3.26	2.33	1.78	1.17	0.800	0.659	0.351

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
5.10	141	101.7	82.35	46.50	33.9	25.79	19.78	14.88	10.62	7.00	4.93	3.99	2.15
5.25	135	98.4	79.9	45.54	33.1	25.38	19.49	14.67	10.38	6.92	4.89	3.93	2.12
5.40	128	94.7	77.3	44.22	32.2	24.96	19.20	14.46	10.20	6.84	4.84	3.865	2.09



Capacity Curve at Different Temperature



Storage Characteristics

