



LEAD-ACID RECHARGEABLE BATTERY
MODEL: BT-6M7.0AC (6V 7.0Ah)



Application

- ☆ Measuring equipment and instrument
- ☆ Telephone sets
- ☆ Lighting equipment
- ☆ Security systems

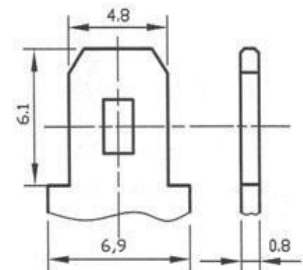
General Features

- ☆ 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 10°C-40°C
- ☆ Lead Calcium Aluminum Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS

Nominal Voltage		6V
Nominal Capacity (20HR)		7.0AH
Dimensions	Length	151±2mm
	Width	35±1mm
	Container height	94±1mm
	Total Height (with terminal)	98±1mm
Weight±3%		Approx 1.04 Kg(2.29lbs)
Internal Resistance(In full charge status)		≈10.5mΩ
Standard Terminals		F1 (standard)

F1
(187)



ELECTRICAL SPECIFICATIONS

Rated Capacity	20 hour rate(350mA)	7.0AH
	10 hour rate(700mA)	6.65AH
	5 hour rate(1120mA)	5.6AH
	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/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	25.9	16.9	9.42	4.89	4.20	2.49	1.42	0.810	0.663	0.357
1.75	25.7	16.7	9.33	4.84	4.17	2.40	1.385	0.800	0.657	0.354
1.80	25.4	16.5	9.24	4.79	4.14	2.30	1.35	0.790	0.650	0.350

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

End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	155	101	56.5	29.3	25.2	14.9	8.52	4.86	3.94	2.12
1.75	153.5	100	56.0	29.0	25.0	14.4	8.31	4.80	3.91	2.10
1.80	152	99.0	55.4	28.7	24.8	13.8	8.10	4.74	3.87	2.08

Cycle Application

1. Limit initial current less than 1.75A.
2. Charge until battery voltage (under charge) reaches 7.05V to 7.2V at 25°C (77°F).
3. Hold at 7.05V to 7.2V until current drop to under 0.042A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -15mV/°C.

Standby Service

1. 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.
2. Temperature compensation coefficient of charging voltage is -9mV/°C.

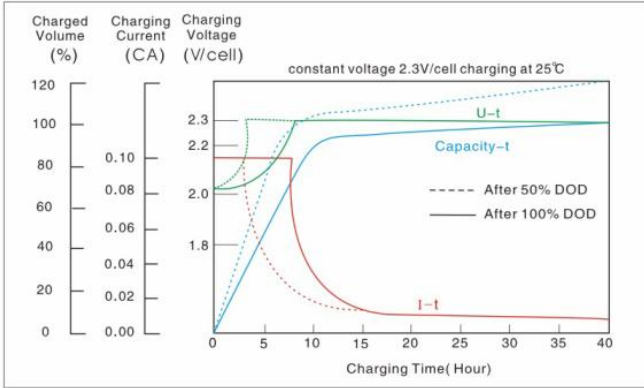
NOTE: The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfating.



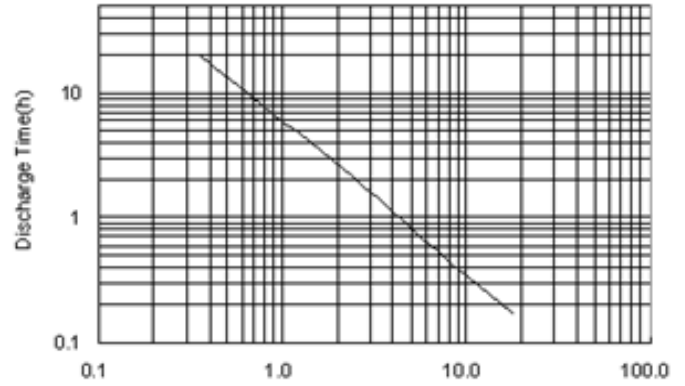
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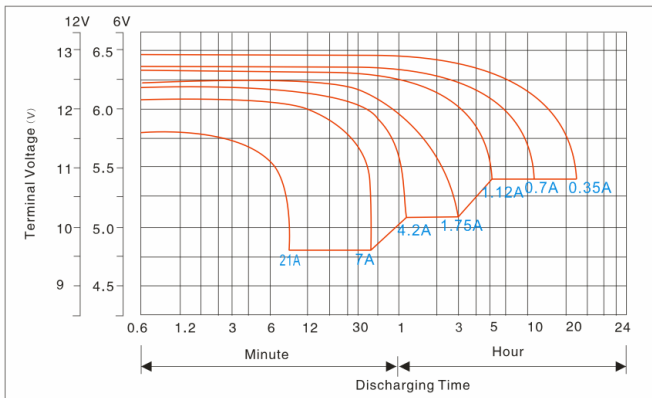
Charge Characteristics



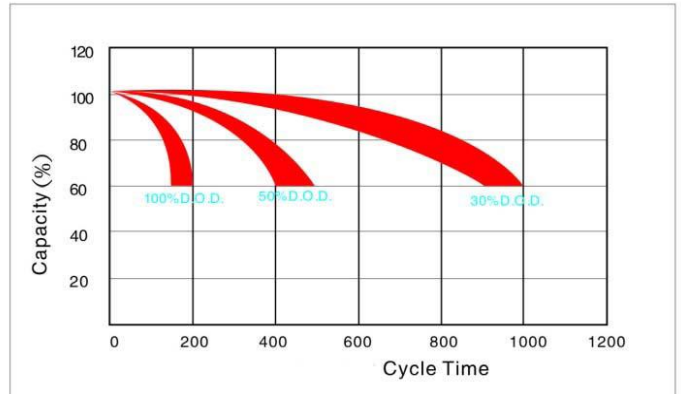
Discharge Current & Discharge Duration Time (25°C/77°C)



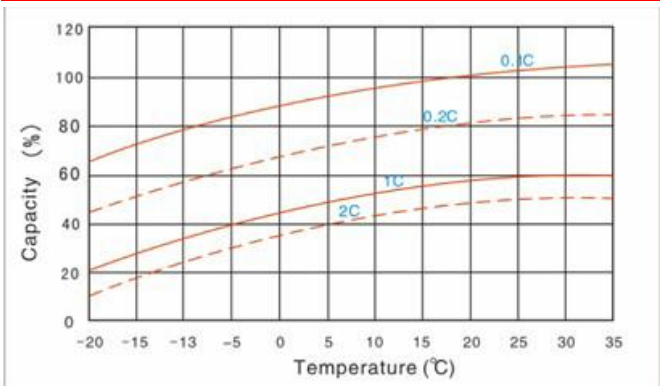
Discharge Characteristic (25°C/77°C)



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



Capacity Curve at Different Temperature



Storage Characteristics

