

SEALED LEAD-ACID BATTERIES v1.2

TCB

LEAD-ACID RECHARGEABLE BATTERY

MODEL: 6 H/8A 857 fl 2V 12Ah



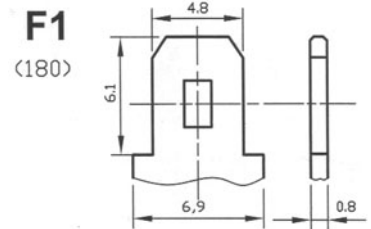
Application

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

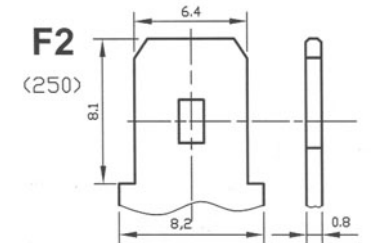
General Features

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

PHYSICAL SPECIFICATIONS		
Nominal Voltage	12V	
Nominal Capacity (20HR)	12AH	
Dimensions	Length	151±2mm
	Width	98±1mm
	Container height	95±1mm
	Total Height (with terminal)	99±1mm
Weight±3%	Approx 3.45Kg(7.61lbs)	
Internal Resistance(In full charge status)	≈15.3mΩ	
Standard Terminals	F1/F2(standard)	



ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(0.60A)	12.2AH
	10 hour rate(1.2A)	11.5AH
	5 hour rate(1.92A)	9.6AH
	27 minute rate(12A)	5.4AH
	7 minute rate (36A)	4.2AH
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	44.4	28.9	16.1	8.38	7.20	4.26	2.43	1.38	1.16	0.612
1.75	44.0	28.6	16.0	8.30	7.15	4.10	2.37	1.37	1.15	0.606
1.80	43.5	28.3	15.8	8.22	7.10	3.94	2.31	1.35	1.14	0.600

CYCLE APPLICATION

5. Limit initial current less than 3,0A.
6. Charge until battery voltage (under charge) reaches 14,1V to 14,4V at 25°C.
7. Hold at 14,1V to 14,4V until current drop to under 0,072A for at least 3 hours.
8. Temperature compensation coefficient of charging voltage is -30mV/°C.

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	533	340	193	101	86.4	51.1	29.2	16.6	13.8	7.28
1.75	528	338	192	99.8	85.8	49.2	28.5	16.4	13.7	7.21
1.80	522	336	190	98.6	85.2	47.3	27.7	16.2	13.6	7.14

STANDBY SERVICE

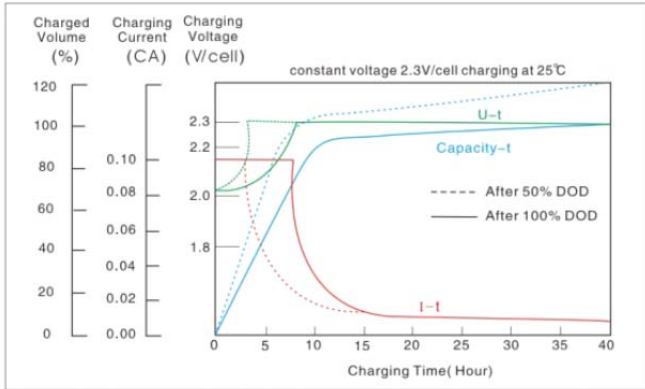
3. Hold battery across constant voltage source of 13,6V to 13,8V with current limit 3,0A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status.
4. Temperature compensation coefficient of charging voltage is -18mV/°C.

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

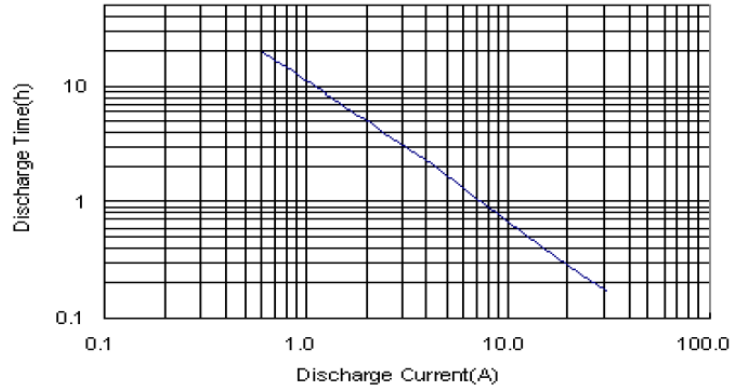


LEAD-ACID RECHARGEABLE BATTERY

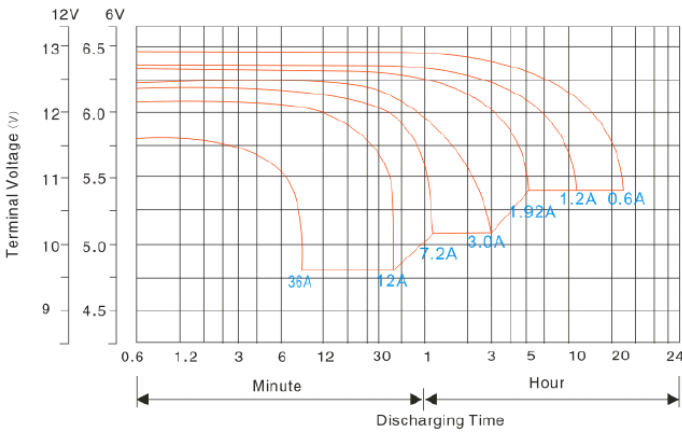
MODEL: BT-12M12AC (12V 12Ah)



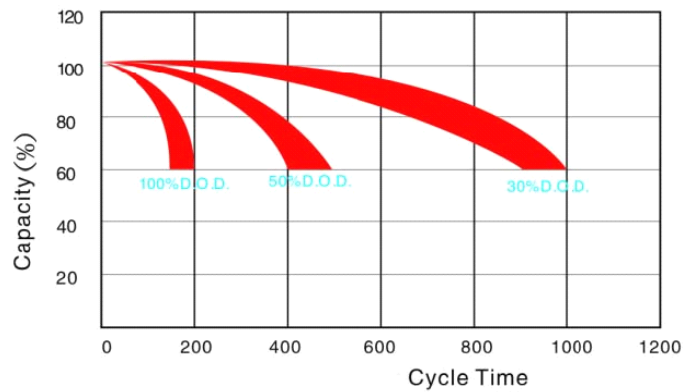
Charge Characteristics



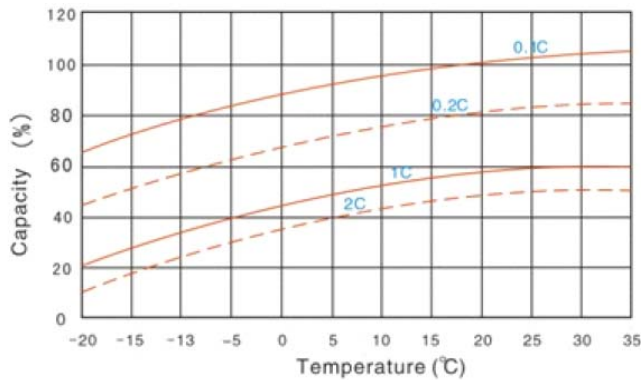
Discharge Current & Discharge Duration (25°C)



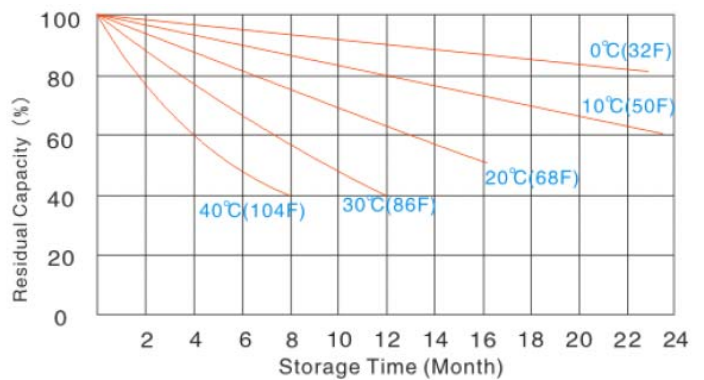
Discharge Characteristics



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



Capacity Curve at Different Temperature



Storage Characteristics