

SEALED LEAD-ACID BATTERIES v1.2

TCB

LEAD-ACID RECHARGEABLE BATTERY

MODEL: 6 HI< G9!(\$!%&fll 2V 40AhD



Application

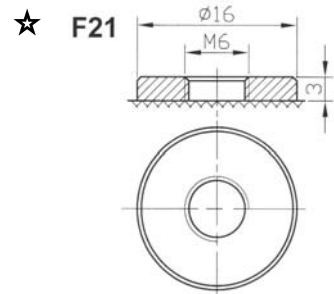
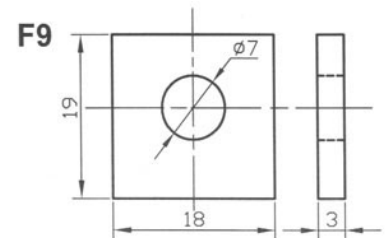
- ✧ Security Systems
- ✧ UPS Power Supply
- ✧ Emergency Power Equipment
- ✧ Telecom Equipment
- ✧ Power Station

General Features

- ✧ Designed floating charging service life: 10 year (25°C)
- ✧ Sealed and maintenance free operation
- ✧ Safety valve installation for explosion proof
- ✧ Wide operating temperature range from 10°C-40°C
- ✧ Lead Calcium Aluminum Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS		
Nominal Voltage	12V	
Nominal Capacity (10HR)	40AH	
Dimensions	Length	196±2mm
	Width	165±2mm
	Container height	170±2mm
	Total Height (with terminal)	170±2mm
Weight±3%	Approx 12.6Kg(27.8lbs)	
Internal Resistance(In full charge status)	≈8.28mΩ	
★ Standard Terminals	F9/F21(standard)	

ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(2.0A)	40.8AH
	10 hour rate(4.0A)	40AH
	5 hour rate(6.4A)	32AH
	3 hour rate(10A)	30AH
	1 hour rate (24A)	24AH
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/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	162.2	105.1	59.0	30.6	26.3	14.6	8.89	5.03	4.16	2.23
1.75	161.2	104.1	58.5	30.4	26.2	14.0	8.66	4.99	4.12	2.21
1.80	159.2	103.1	57.9	30.0	26.0	13.4	8.45	4.93	4.08	2.19

CYCLE APPLICATION

1. Limit initial current less than 10,0A.
2. Charge until battery voltage (under charge) reaches 14,1V to 14,4V at 25°C.
3. Hold at 14,1V to 14,4V until current drop to under 0,240A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.

STANDBY SERVICE

1. Hold battery across constant voltage source of 13,6V to 13,8V with current limit 10,0A 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.

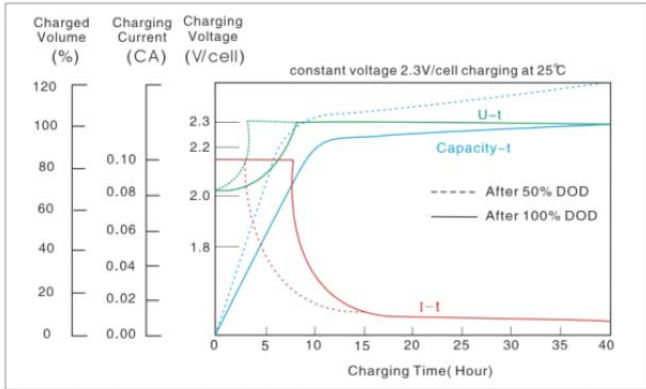
Constant Power Discharge Data Sheet (Watt at 25°C)										
End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	1756	1165	657.0	350.2	306.8	170.4	104.44	60.02	50.41	27.48
1.75	1754	1161	655.9	347.1	304.7	165.3	102.37	59.50	49.69	27.38
1.80	1752	1157	654.9	344.0	302.7	159.1	100.41	58.99	48.96	27.16

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

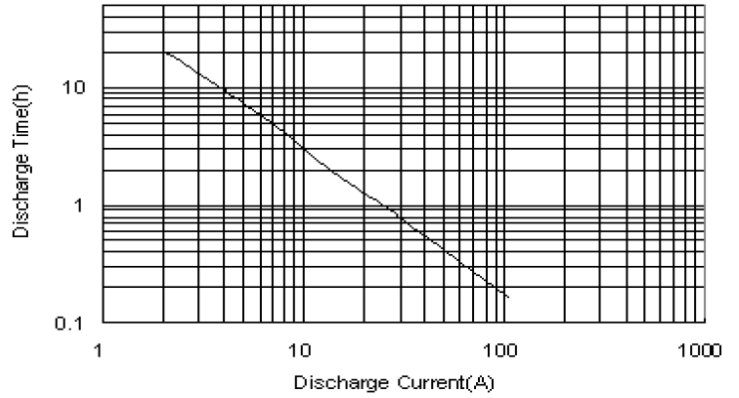


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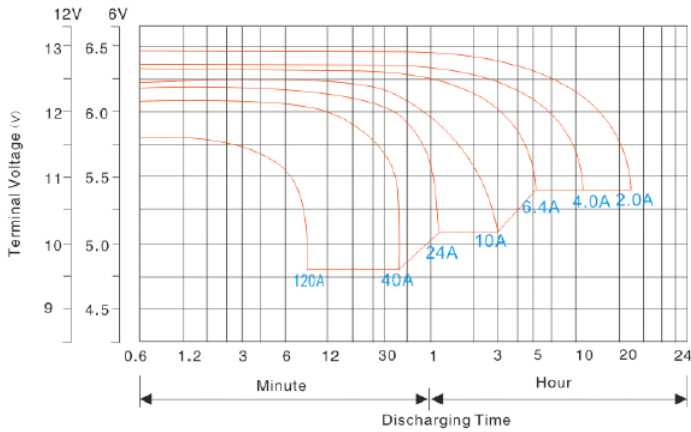
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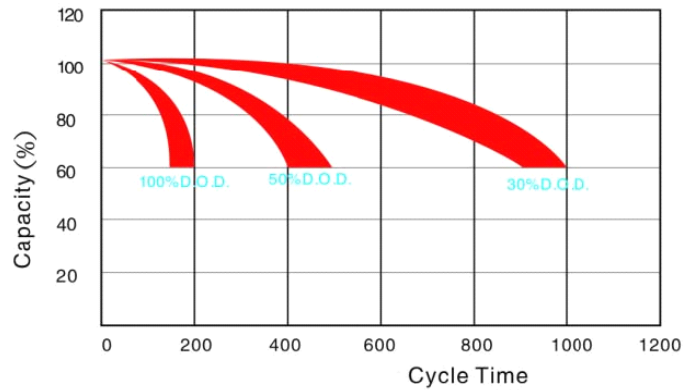
Charge Characteristics



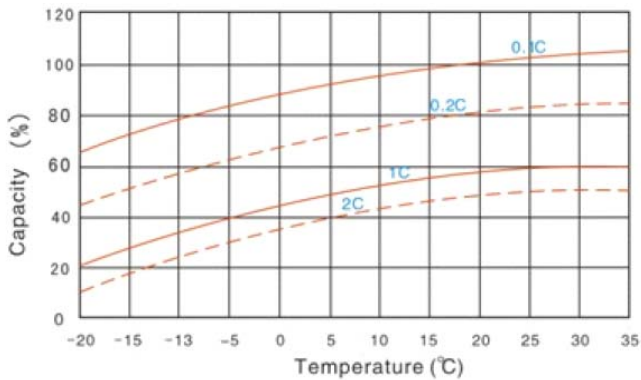
Discharge Current & Discharge Duration (25°C)



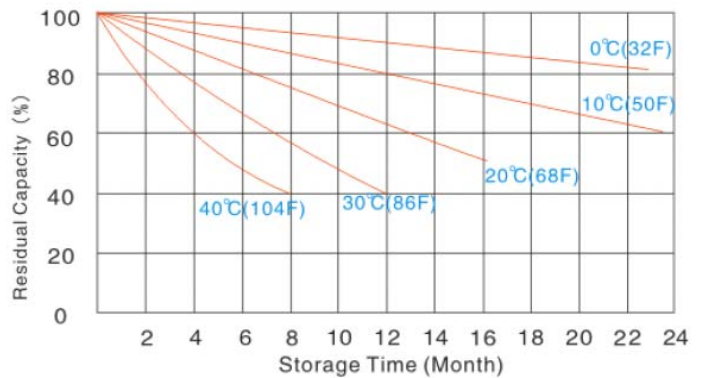
Discharge Characteristics



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



Capacity Curve at Different Temperature



Storage Characteristics