

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



Battery Construction

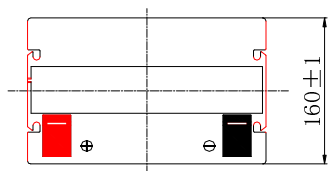
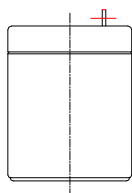
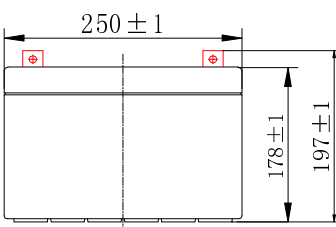
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Feature

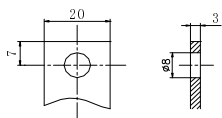
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

SPECIFICATION

Nominal voltage 12V
 Number of cell 6
 Length(mm/inch) 250/9.84
 Width(mm/inch) 160/6.30
 Height(mm/inch) 178/7.01
 Total Height(mm/inch) 197/7.76
 Approx. Weight(kg/lbs) 16.5/36.4



Terminal(F5)



Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (2.75A、10.5V)	55Ah
	10 hour rate (5A、10.5V)	50Ah
	5 hour rate (8.8A、10.5V)	44Ah
	1 hour rate (31A、9.6V)	31Ah
Internal Resistance	Full charged Battery 77°F(25°C): 9mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current 77°F(25°C): 650A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F(25°C)	
	Cycle: 14.5~14.9 V/77°F(25°C) Max. Current: 12.5A	

Discharge Constant Current (Amperes at 77° F 25 °C)

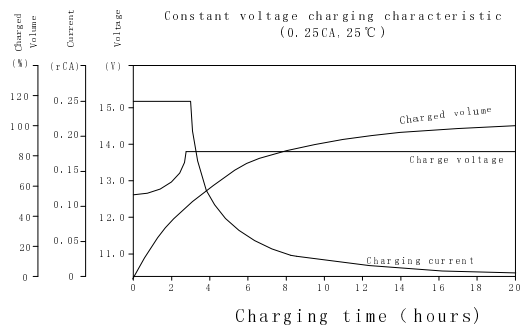
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	160	115	87.5	56.0	31.0	13.7	9.25	5.25	2.85
1.65V	151	109	83.5	54.1	30.1	13.4	9.15	5.18	2.85
1.70V	142	103	79.5	52.2	29.2	13.0	9.00	5.10	2.80
1.75V	133	96.5	75.0	50.3	28.2	12.6	8.80	5.00	2.75
1.80V	123	90.0	70.0	48.2	27.1	12.1	8.50	4.85	2.70

Discharge Constant Power (watts at 77° F 25 °C)

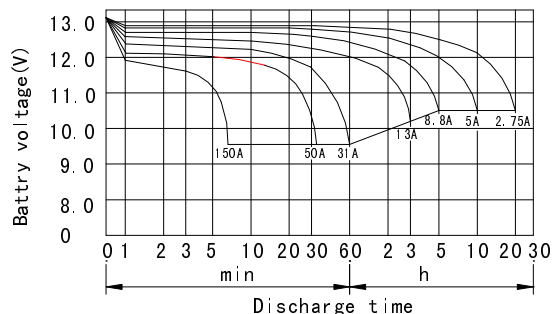
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	290	217	176	101	77.6	62.7	37.4	26.5	17.1
1.65V	273	205	161	99.2	76.4	61.2	36.6	25.9	16.9
1.70V	256	194	154	97.4	74.9	59.9	35.9	25.4	16.6
1.75V	238	182	147	95.6	73.3	58.5	34.9	24.8	16.4
1.80V	227	169	140	94.6	71.3	57.0	34.0	24.3	16.3

(Note) The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum values.

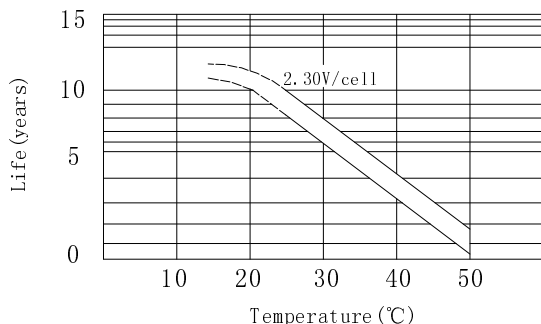
charge characteristic curve



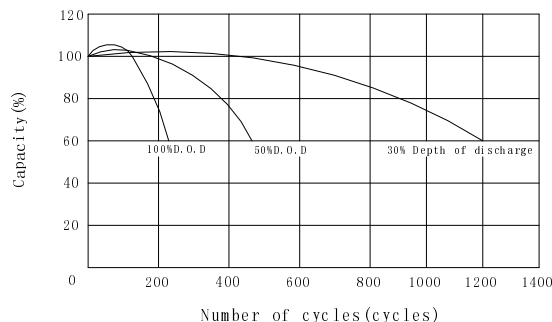
Discharge characteristic (25°C)



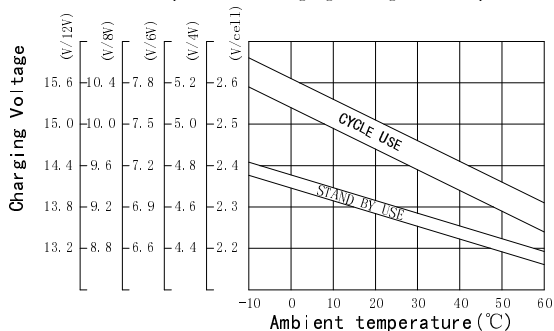
Temperature effects on float life



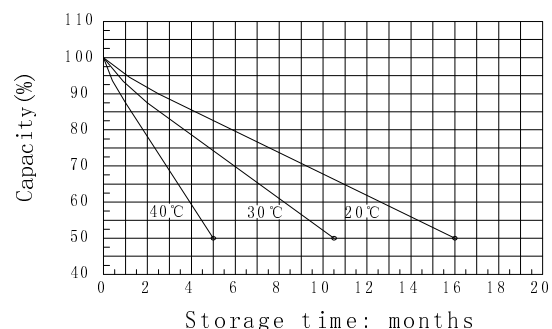
Cycle service life in relation to depth of discharge



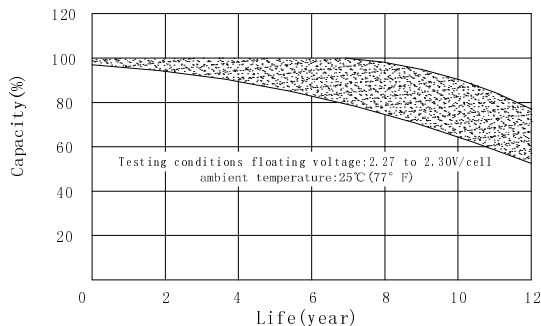
Relationship between charging voltage and temperature



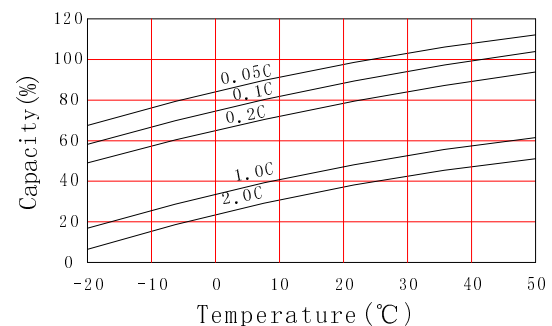
Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity



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