

MAINTENANCE-FREE RECHARGEABLE BATTERY

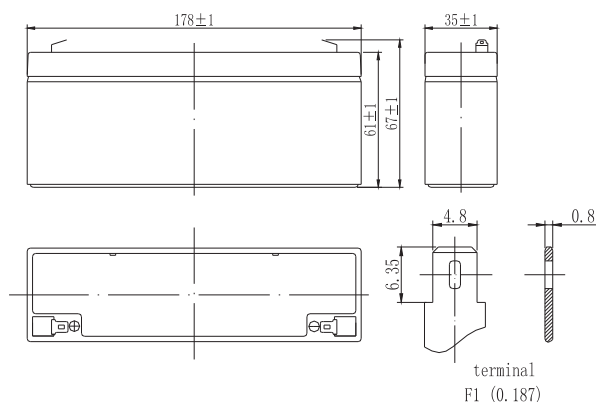


General Features

- 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.

Dimensions and Weight

Length(mm / inch)	178 / 7.01
Width(mm / inch)	35 / 1.38
Height(mm / inch)	61 / 2.40
Total Height(mm / inch)	67 / 2.64
Approx. Weight(Kg / lbs)	0.99 / 2.18
Standard Terminal	F1



Specification

Nominal Voltage	12V
Number of cell	6
Design Life	3~5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.11A, 10.5V)	2.2Ah
10 hour rate (0.19A, 10.5V)	1.91Ah
5 hour rate (0.35A, 10.5V)	1.77Ah
1 hour rate (1.40A, 9.6V)	1.40Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	60mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	33A(5s)
Short Circuit Current	110A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.5-14.9V
Maximum charging current	0.66A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

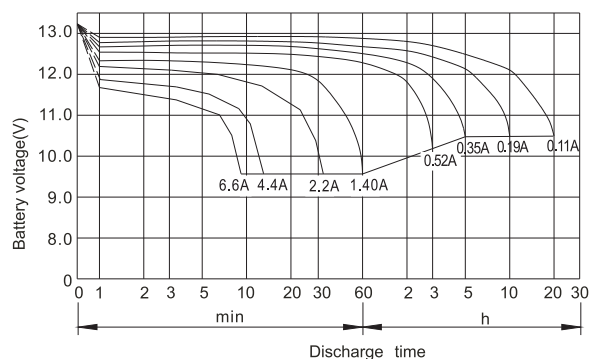
Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	9.00	5.70	4.40	2.50	1.46	0.59	0.41	0.22	0.120
1.65V	8.64	5.47	4.27	2.41	1.38	0.57	0.40	0.22	0.120
1.70V	8.27	5.23	4.13	2.29	1.29	0.54	0.39	0.21	0.120
1.75V	7.89	4.98	3.98	2.16	1.19	0.49	0.37	0.20	0.115
1.80V	7.50	4.72	3.82	2.02	1.08	0.45	0.34	0.18	0.103

Discharge Constant Power (Watts at 77°F25°C)

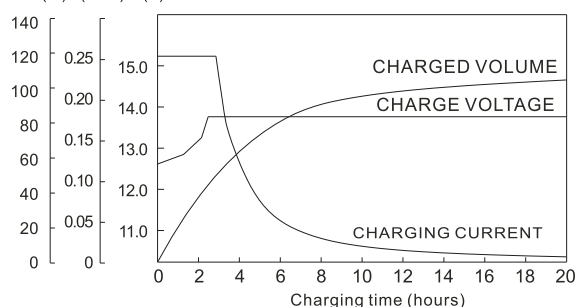
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	17.5	11.00	8.50	4.83	3.50	2.78	1.54	1.08	0.75
1.65V	16.7	10.50	8.14	4.52	3.38	2.46	1.45	1.04	0.74
1.70V	16.0	10.00	7.86	4.28	3.25	2.28	1.35	0.98	0.73
1.75V	15.3	9.46	7.56	4.02	3.11	2.09	1.14	0.93	0.71
1.80V	14.4	8.94	7.24	3.74	3.00	1.86	1.02	0.84	0.62

Discharge characteristic (25°C)



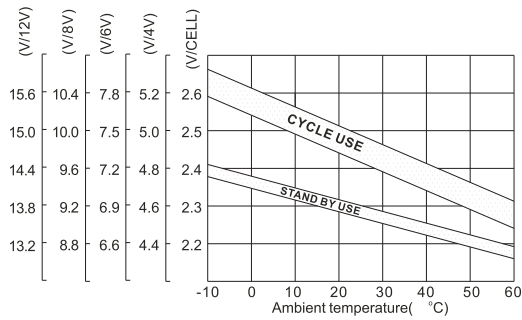
Charge characteristic curve

Constant voltage charge characteristic (0.25CA, 25°C)

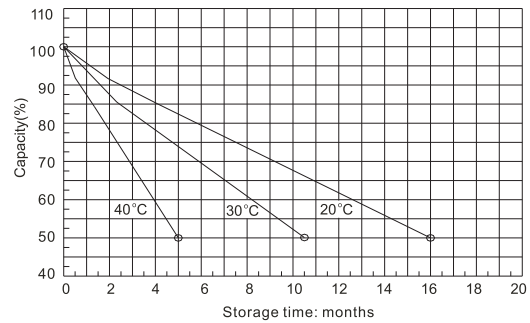


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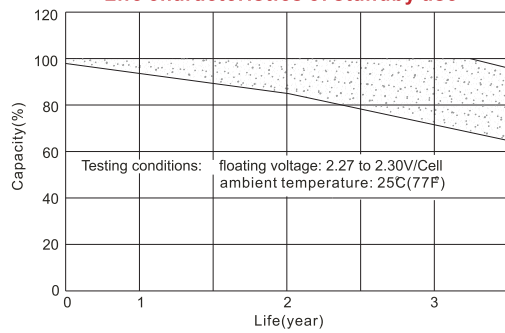
Relationship between charging voltage and temperature



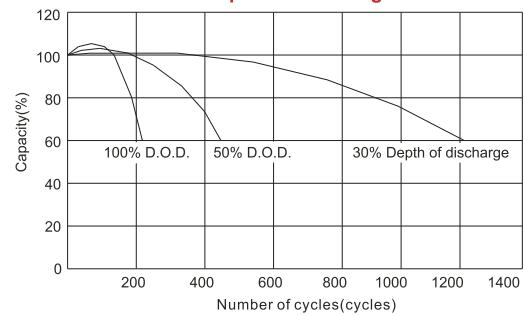
Self-discharge characteristic



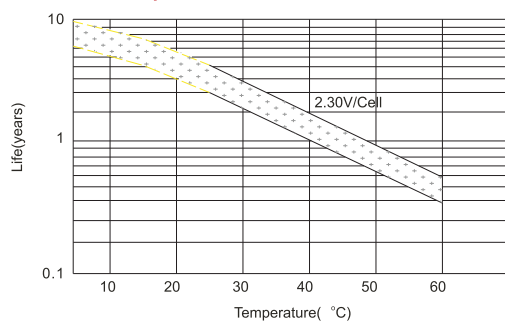
Life characteristics of standby use



Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity

