GB3.2-12 12V3.2AH

Rechargeable Valve Regulated lead-Acid Battery

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 oneway 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

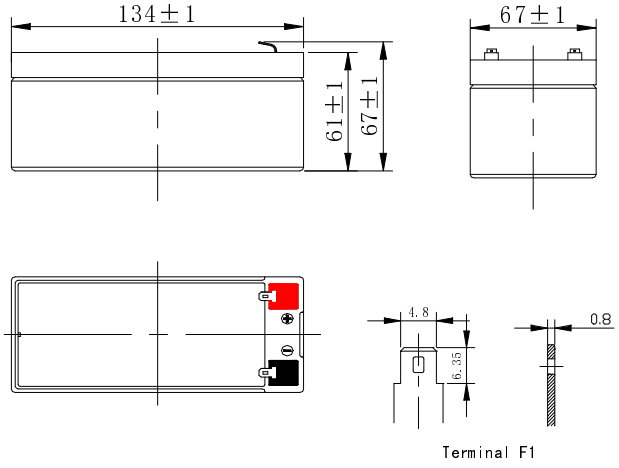
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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) ····· 134/5.28
Width(mm/inch ····· 67/2.64
Height(mm/inch) ····· 61/2.40
Total Height(mm/inch) ····· 67/2.64
Approx. Weight(kg/lbs) ····· 1.25/2.76



Performance Characteristics

Capacity 77°F(25℃)	20 hour rate (0.16A、10.5V)	3.2Ah
	10 hour rate (0.3A、10.5V)	3.0Ah
	5 hour rate (0.54A、10.5V)	2.7Ah
	1 hour rate (1.95A、9.6V)	1.95Ah
Internal Resistance	Full charged Battery77°F(25℃):60mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40℃)	102%
	77° F(25℃)	100%
	32° F(10℃)	85%
	5° F(-15℃)	65%
Self-Discharge 68°F(20℃)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25℃): 48A(5S)		
Charge (Constant Voltage)	Float：13.6～13.8 V/77° F/(25℃)	
	Cycle:14.5～14.9 V/77°F/(25℃) Max. Current：0.8A	

Discharge Constant Current (Amperes at 77° F25 ℃)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	11.5	8.30	5.82	3.35	1.92	0.86	0.58	0.32	0.165
1.65V	10.9	7.90	5.60	3.23	1.84	0.83	0.57	0.31	0.165
1.70V	10.3	7.50	5.38	3.11	1.76	0.80	0.55	0.31	0.160
1.75V	9.70	7.05	5.13	2.99	1.68	0.78	0.54	0.30	0.160
1.80V	9.05	6.60	4.83	2.85	1.60	0.73	0.51	0.29	0.155

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	21.6	14.4	11.1	6.75	5.02	3.86	2.13	1.67	1.15
1.65V	20.3	13.6	10.5	6.40	4.79	3.70	2.07	1.63	1.13
1.70V	19.0	12.7	9.88	6.06	4.55	3.52	1.99	1.59	1.10
1.75V	17.7	11.9	9.30	5.71	4.30	3.35	1.92	1.54	1.08
1.80V	16.3	11.1	8.69	5.36	4.05	3.16	1.83	1.49	1.05

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

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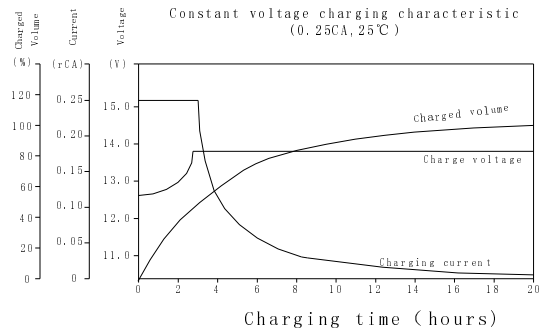
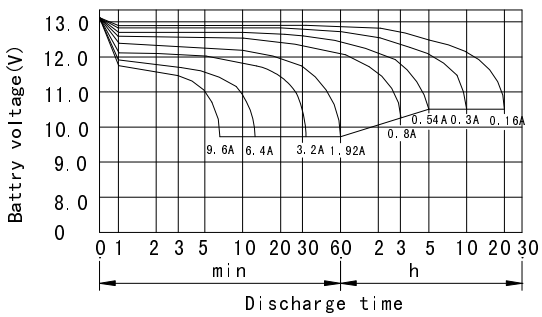
Rechargeable Valve Regulated lead-Acid Battery

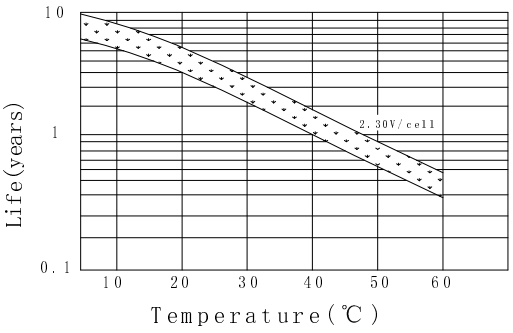
charge characteristic curve



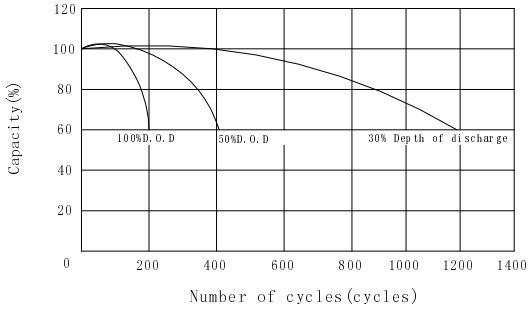
Discharge characteristic(25℃)



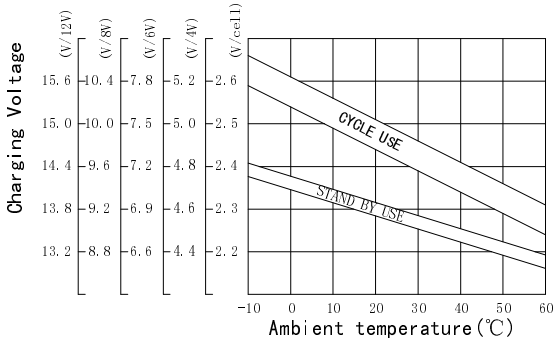
Temperature effects on float life



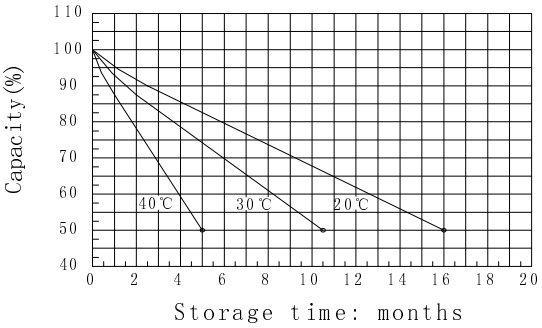
Cycle service life in relation to depth of discharge



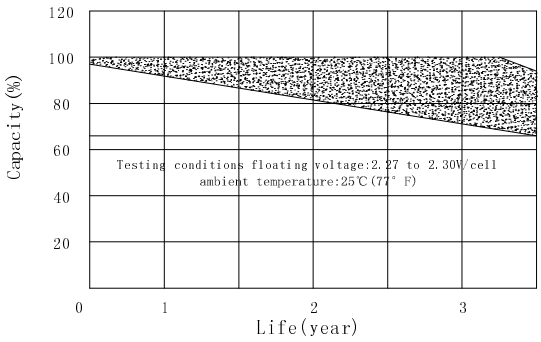
Relationship between charging voltage and temperature



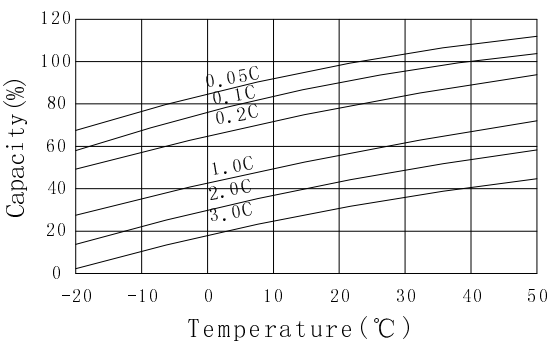
Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity



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