



GS12-100 (12V100Ah/20hr)

The rechargeable batteries are lead-lead dioxidesystems. The dilute sulfuric acid electrolyte isabsorbed by separators 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

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General Feature

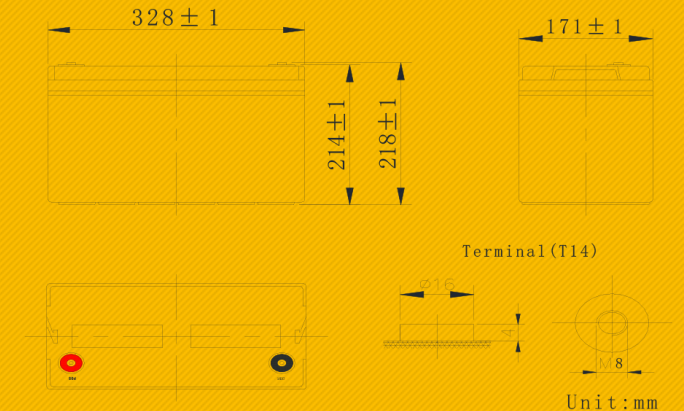
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed 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) 328/12.9
 Width(mm/inch) 171/6.72
 Height(mm/inch) 214/8.41
 Total Height(mm/inch) 218/8.58
 Approx. Weight(kg/lbs) 27/59.53

Performance Characteristics

Capacity 77° F (25°C)	20 hour rate (5.0A、10.8V)	99Ah
	10 hour rate (9.3A 10.8V)	95Ah
	5 hour rate (17A、10.5V)	85Ah
	1 hour rate (60A、9.6V)	60Ah
Internal Resistance	Full charged Battery 77° F (25°C): 10mΩ	
Capacity affected by Temperature (10 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 12 month storage	60%
Max. discharge current 77°F (25°C): 800A (5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F (25°C)	
	Cycle: 14.4~14.7 V/77° F (25°C) Max. Current: 25A	



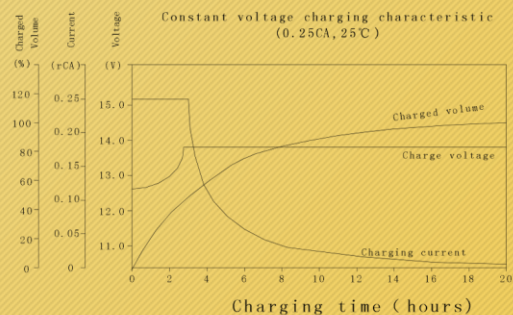
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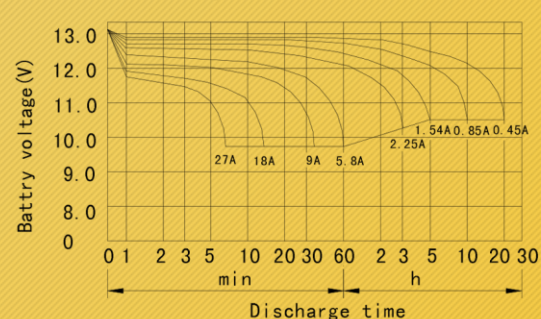
GS12-100 (12V100Ah/20hr)



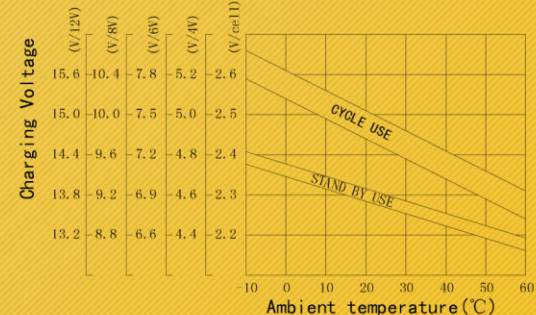
charge characteristic curve



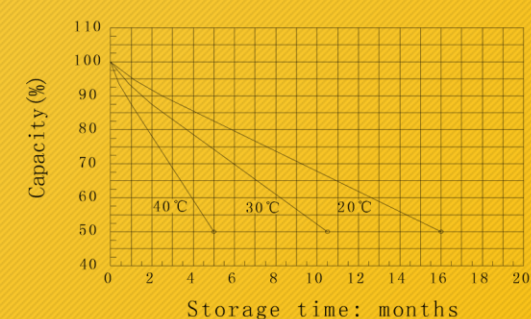
Discharge characteristic (25°C)



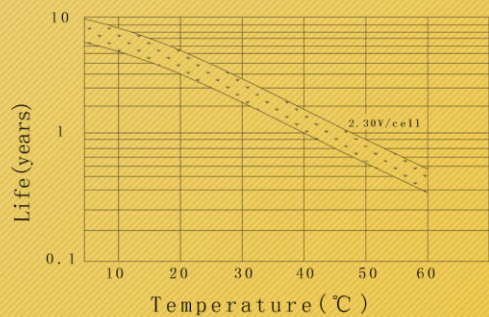
Relationship between charging voltage and temperature



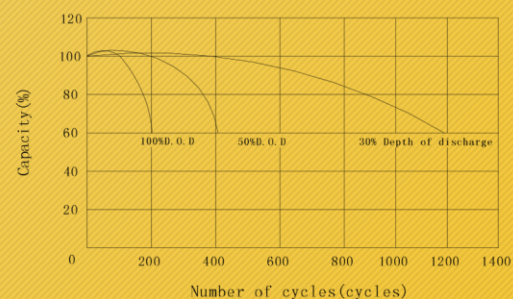
Self-discharge characteristic



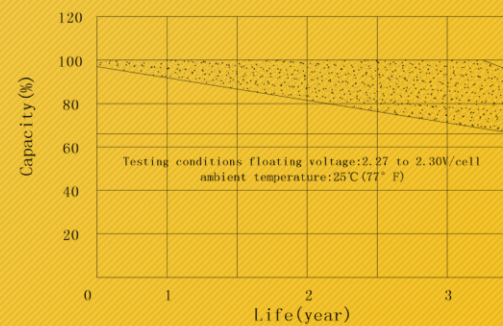
Temperature effects on float life



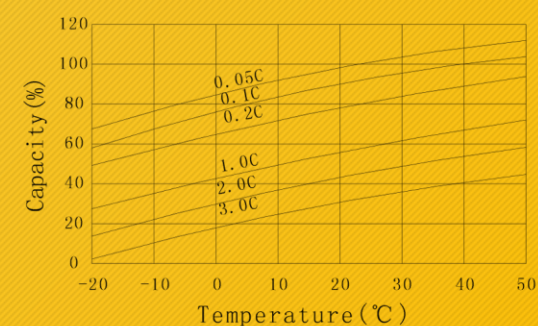
Cycle service life in relation to depth of discharge



Life characteristics of standby use



Temperature effects on capacity



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