

# G-CELL

Front Access

Valve-Regulated Lead-Acid  
AGM Battery

**GF-100**

**Nominal Capacity**  
12V 100AH/C<sub>10</sub>/25°C

**Charging Voltage**  
Float Use: 13.5 V  
Cycle Use: 14.1 V

**Non-Spillable Battery**



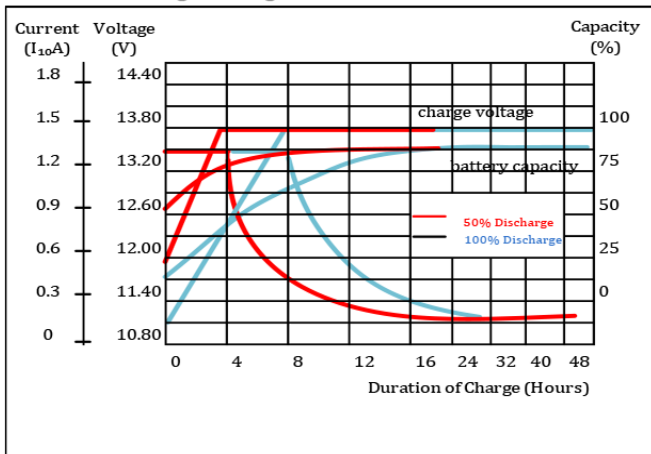
## GF-100 Datasheet

### Specifications

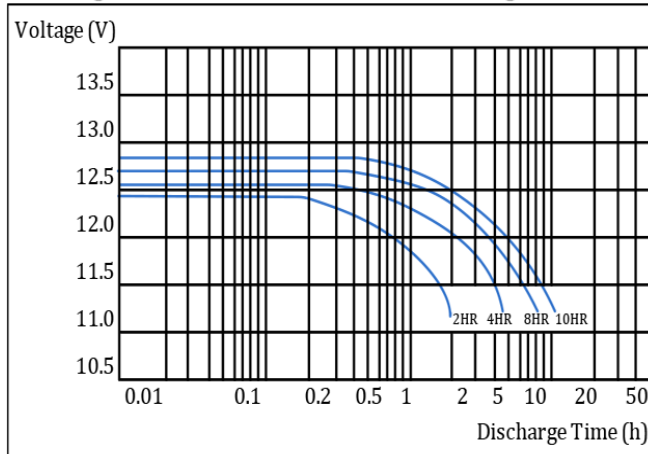
Casing Material	ABS Engineering Plastic	
Separator	Absorbed Glass Mat (AGM)	
Nominal Voltage	12V	
Nominal Rated Capacity (@ 10 hours rate)	100AH (10 hour rate) to 10.8V @25°C	
Terminal Type	M6 (screw type)	
Internal Resistance (Fully charged battery)	≤ 0.005 Ω @ 25°C	
Weight	31.5 ± 1.5 Kg Approx.	
Dimensions	Length	396 mm
	Width	110 mm
	Height	286 mm
Recombination Efficiency	> 95.9%	
Recommended Operating Temperature	20°C to 25°C	
Maximum Charging Current Limit	0.2C <sub>10</sub> A	
Self Discharge @ 25 °C	< 3% After 30 Days Storage	
Operating Temperature Range	Discharge: -40 °C to +55 °C	
	Charge: -20 °C to +45 °C	
	Storage: -20°C to +40 °C	
Capacity Affected By Temperature	105% @ 40 °C	
	85% @ 0 °C	
	60% @ -20 °C	
Temperature Coefficient	-0.03V/1 °C	
Charging Voltage @25°C	Float 2.23V/Cell	
	Cycle 2.30V/Cell	

# Performance Characteristics : GF-100 (AGM)

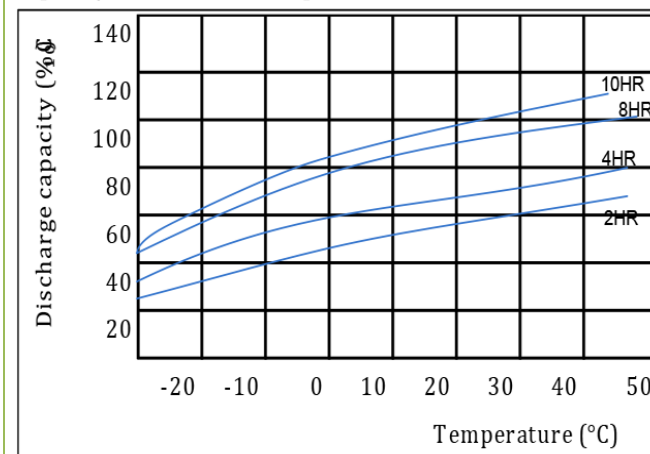
## Constant Voltage Charge Characteristics



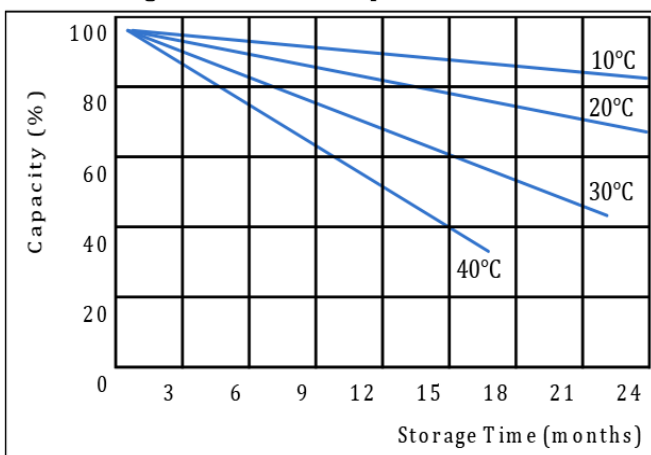
## Discharge Performance at Different Discharge Rate



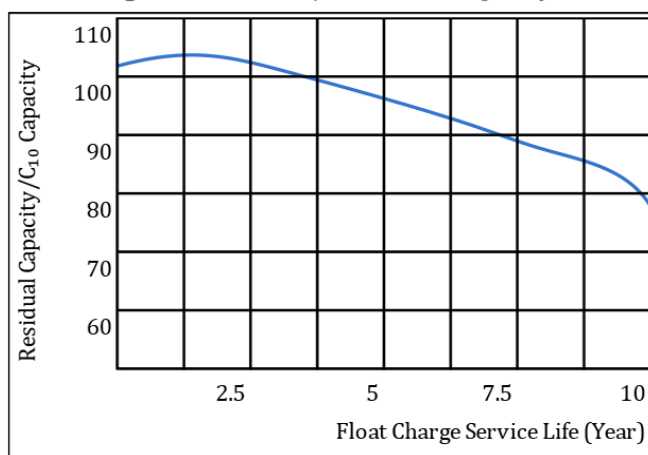
## Capacity at Different Temperature



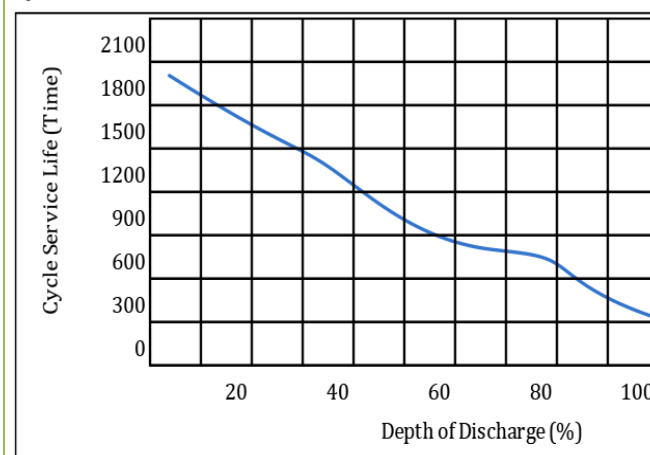
## Self-discharge at Different Temperature



## Float Charge Service Life V/S Residual Capacity



## Cyclic Life at Different DOD



## DISCHARGE SEPECIFICATIONS

### Constant Current Discharge Characteristics in Amps @ 25°C

Final VPC	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr
11.10	91.70	54.50	38.70	28.40	23.50	18.00	15.60	12.50	10.30	8.20
10.80	99.40	58.60	39.50	29.10	23.90	18.30	15.80	12.70	10.50	8.40
10.50	105.00	59.90	40.00	29.70	24.30	18.60	16.00	12.80	10.60	8.50
10.20	111.10	61.90	40.50	30.30	24.70	18.80	16.10	12.90	10.70	8.60



Distributor / Dealer :