

### AGM ALRA Cell Battery Commercial UPS/TELECOM

GPGATE® AGM ALRA cell batteries outperform traditional AGM and Gel batteries and are a resilient battery solution for ups uninterruptible power supply and telecom communication server group applications. The batteries exceed rigorous safety tests and incorporate design features that adhere to discharge performance, wide operating temperatures and long duration cyclic current draws.

MECHANICAL SPECIFICATIONS		
Industry Reference	ISO9001	
Length A (in/mm)	19.1	485
Width B (in/mm)	6.7	170
Height C (in/mm)	9.4	240
Total Height D (in/mm)	9.4	240
Weight (lbs/kgs)	46.3	102
Terminal *	F9/F15	
Technology	AGM VRLA	

ELECTRICAL SPECIFICATIONS		
Voltage (V)	12	
Internal Resistance (mΩ)	5.5	
Short Circuit (A) (20°C / 68°F)	1200	
Self-Discharge (20°C / 68°F)	2-3% per month	
Charge Temperature	Min: -10°C (14°F)   Max: 50°C (122°F)	
Storage Temperature	Min: -10°C (14°F)   Max: 50°C (122°F)	
Amp Hours (AH)	10 HR	150
	20 HR	165

**NOTE 1:** Dimensions have a ±2 mm (0.08 in) tolerance. Weights may vary.

**NOTE 2:** Refer to terminal guide on website for torque values.

**NOTE 3:** Extra considerations must be given when designing systems for use at maximum temperatures.

**NOTE 4:** Internal Resistance is approximate.

### FEATURES

#### Maintenance Free

The AGM battery adopts a sealed valve-controlled design, and the gas generated by the internal water splitting can be recombined back into the electrolyte during the discharge process, without the need for regular replenishment of the electrolyte. This makes it safe and reduces labor costs required for maintenance

#### No Leakage

The internal electrolyte is absorbed by the separator of the AGM battery, and even if the battery case is ruptured, the electrolyte will not leak out easily.

#### Low Risk of Internal Short Circuits

Due to the extremely small voids of AGM battery materials and good puncture resistance, it is difficult for small particles generated by the aging of battery plates to pass through, eliminating the risk of internal short circuits.

#### High Output Current

The separator of AGM batteries has many pores filled with electrolyte, resulting in the largest contact area between the plates and the

electrolyte, which can generate high instantaneous current. AGM batteries have minimal internal resistance, which allows them to deliver sufficient power pulses when necessary.

#### Excellent Deep Cycle Performance of AGM Batteries

The lead-calcium alloy electrode plate has mature technology and good deep cycle discharge performance. The surface of the plate is not easy to peel off, and it is not easy to crystallize sulfate, thus ensuring a longer cycle life.

#### CERTIFIED QUALITY

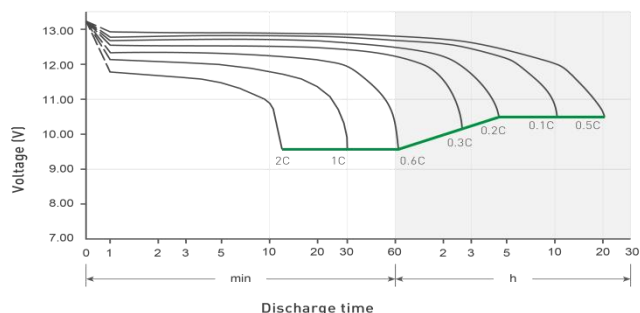
GB/T 22199-2008 、GB/T18332.1-2009 ; Passed ISO9001、ISO14001、ISO18001、CE certificate

#### SHIPPING CLASSIFICATION

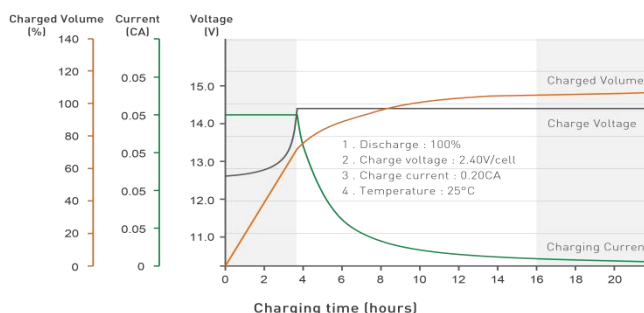
- Classified as a nonspillable battery
- Without restriction for transport by Sea (IMDG amendment 27)
- Without restriction for transport by Air (IATA/ICAO provision 67)
- Without restriction for transport by Ground (STB, DOT-CFR-HMR49)

## BATTERY CHARACTERISTICS

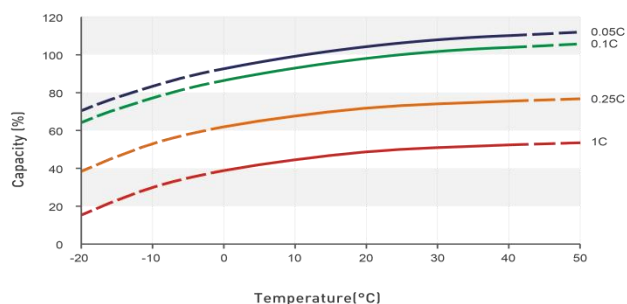
### Charge Characteristics



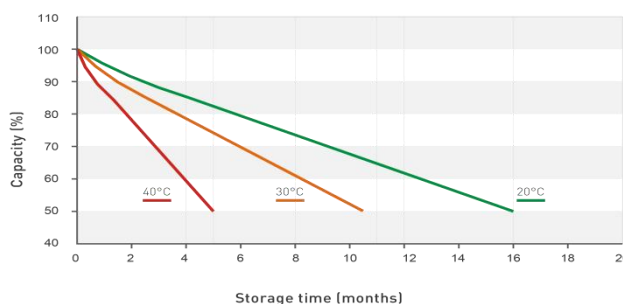
### Charging Characteristics(25°C)



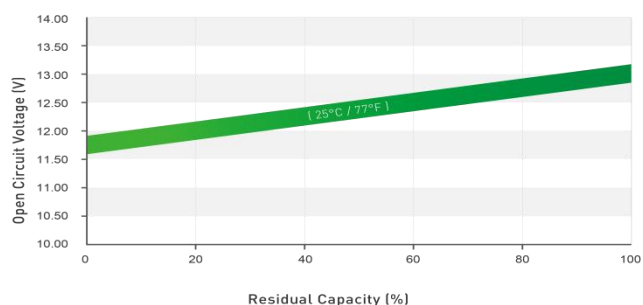
### Effect Of Temperature On Capacity



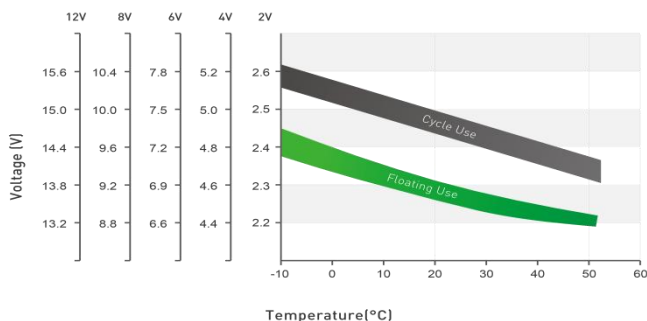
### Self-Discharge Characteristics



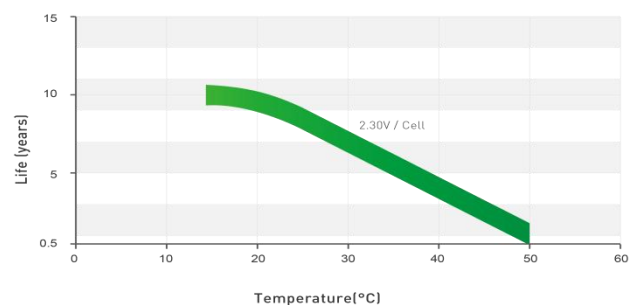
### The Relationship For Open Circuit Voltage And Residual Capacity (25°C)



### The Relationship For Charging Voltage And Temperature



### Effect Of Temperature On Long Life



### Cycle Life On D.O.D(25°C)

