

**Motive deep cycle AGM battery    Airports/Healthcare facilities/Shopping centers/Educational institutions**

GPGATE®Motive deep cycle AGM batteries outperform traditional AGM and Gel batteries and are a resilient battery solution for power equipment used in locations where regulatory mandates require use of non-spillable batteries such as airports, healthcare facilities, shopping centers, educational institutions 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)	20.4	517
Width B (in/mm)	9.4	240
Height C (in/mm)	8.7	220
Total Height D (in/mm)	8.8	223
Weight (lbs/kgs)	61	134
Terminal *	M8xΦ20	
Technology	EVF	

ELECTRICAL SPECIFICATIONS		
Voltage (V)	12	
Internal Resistance (mΩ)	3.75	
Short Circuit (A) (20°C / 68°F)	1600	
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	200
	20 HR	220

- 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

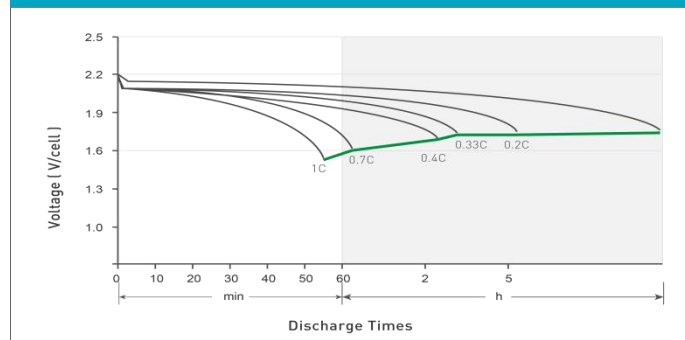
EVF deep cycle AGM batteries are designed for frequent deep cycle discharges. Using active materials and a robust grid, EV series sealed lead-acid batteries provide reliable performance under high load conditions and can deliver over 300 cycles at 100% DOD. Suitable for scooters, electric wheelchairs, golf carts, etc.

- High-purity raw materials and high-performance AGM separators
Excellent low temperature performance and vibration resistance
Excellent cycle life and deep cycle recovery performance
Sealed structure and maintenance-free
High pressure relief valve reduces water loss and extends service life
Integrated flame arrester prevents fire and explosion.

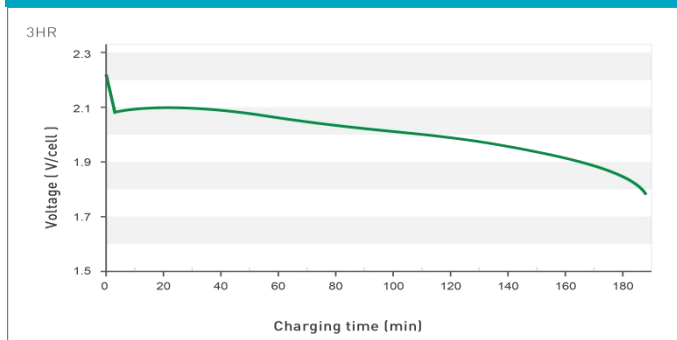
Compliant Standards:
GB/T 22199-2008 、 GB/T18332.1-2009 ； Passed ISO9001、 ISO14001、 ISO18001、 CE certificate

### BATTERY CHARACTERISTICS

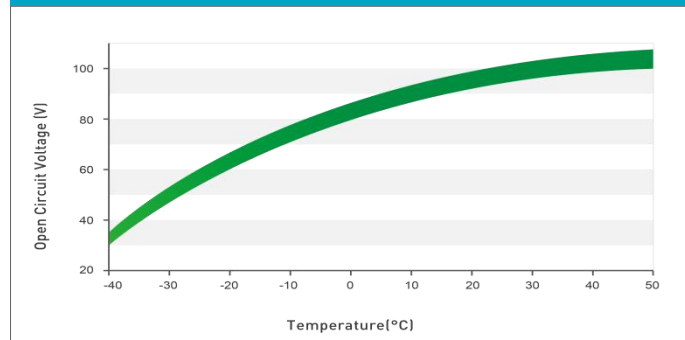
Charge Characteristics



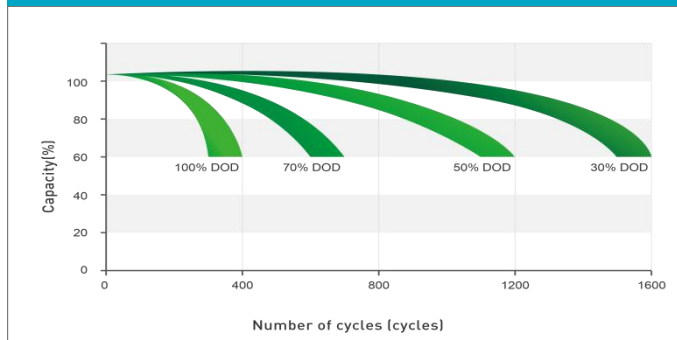
Charging Characteristics(25°C)



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



Cycle Life On D.O.D(25°C)



### NOTES

1. Due to self-discharge characteristics of lead-acid battery technologies, batteries should be top charged within 6 months of storage to ensure optimum performance, prevent sulphation and permanent capacity loss.
2. Charge profile recommendations correspond to battery voltages at 25°C (77°F). For temperatures below, adjust +5mVPC/°C (+3mVPC/°F). Temperatures above, adjust -5mVPC/°C (-3mVPC/°F). Temperature compensated charging helps ensure optimum battery runtime and life performance.
3. Charge profile recommendations depend on application and charger. IUI (or IUI with Pulse) is appropriate for applications that require frequent and deep discharges. IUU is appropriate for applications that are on standby and cycled less frequently.
4. IUI with Pulse algorithm uses a pulse termination criterion. The finish current is pulsed on and off in order to keep the battery voltage at a minimum while still reaching target overcharge. If average VPC exceeds U2 and the charger output has been on for more than 30 seconds, the output is shut off until VPC falls to U3.
5. IUI Charge Profile (if applicable), may have a continuous float phase added (2.27VPC).

