

EV-DZM-10



Specification

Nominal Voltage		12V
Rated Capacity (25 °C)	20 Hour Rate (500mA to 10. 5V)	10.0Ah
	10 Hour Rate (958mA to 10.5V)	9.58Ah
	5 Hour Rate (1.76A to 10.2V)	8.76AH
Reserve Capacity	@5A	85Minutes
	@15A	18Minutes
Dimensions	Length	151mm(5.94 inches)
	Width	98.0 mm(3.90 inches)
	Height	94.0 mm(3.70inches)
	Total Height	100 mm(3.98inches)
Weight		4.2kg (9.24lbs)

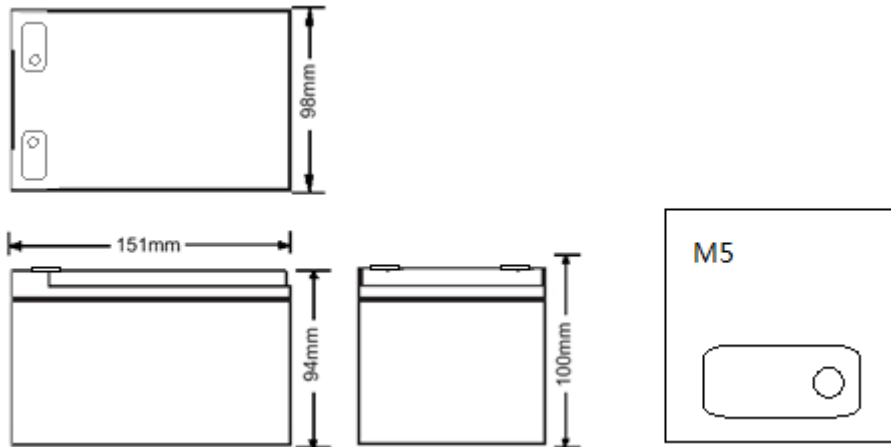
Characteristics

Capacity Affected by Temperature (20 HR)			Self Discharge 25°C (77°F)	Max. Discharge@25°C (77°F)	Charging@25°C (77°F) (Constant Voltage)		Internal Re- sistance @25°C (77°F)	Container Material
0°C(32°F)	25°C (77°F)	40°C (104°F)			Cycle	Float		
85%	100%	102%	< 3% capacity Per month	150A(5S)	14.4-14.7	13.6-13.8	20.5mΩ	ABS

Typical Application

- ◇ Electric sightseeing car
- ◇ Scraper
- ◇ Golf cart
- ◇ Electric scooter
- ◇ Marine
- ◇ Electric vehicle
- ◇ Electric forklift
- ◇ Portable Medical device
- ◇ Solar
- ◇ Wheelchair

Battery Structure and Size



Length:151mm

Width:98mm

Height :94mm

Total Height :100mm

Key features & Benefits

5~8 years design life @ 20°C(68°F) ambient temperature,
80% remaining capacity;

UL Recognized component;

Rechargeable VRLA batteries with an electrolyte retained in
a glass mat with a very fine glass fibre structure.

High-Compression Absorbed Glass Mat technology (AGM)
for over 99% recombination efficiency.

Proprietary Fixed Orifice Plate Pasting technology applying active
materials on both sides of the grid for consistent cell-to-cell
performance, higher capacity and uniform grid protection.

Perfect combination between energy storage performance and reliability;

Operates at a low internal pressure;

Low self-discharge rate (less than 3% / month @ 20°C(68°F);

Grid plate construction consisting of a Lead Calcium Tin alloy;

High impact resistant ABS resin cases and covers;

Available in V-0 Flame Retardant Material;

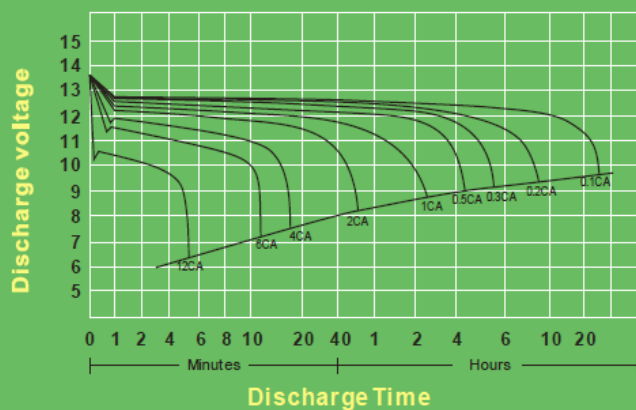
In compliance with IEC 896-2;

Wide operating temperature range;

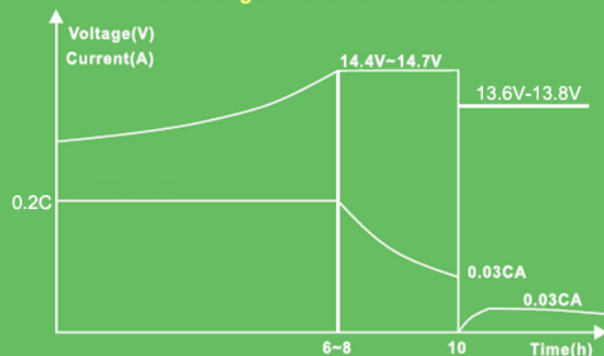
Sealed construction for operation in any position.

Performance Characteristics

Discharge Characteristic Curve

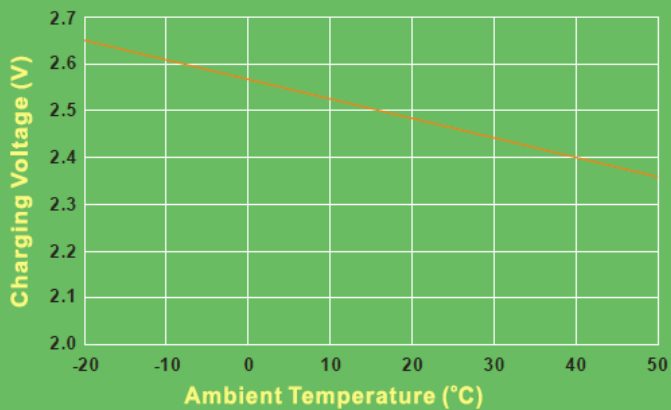


Discharge Characteristic Curve



First stage: constant current 0.12 CA ~ 0.18 CA charging, voltage rise to 14.8 V, turn to the second stage;
Second phase: constant pressure 14.8 \pm 0.1 V charging, current gradually decreased to 0.03 CA, turn to the third stage;
Third stage: trickle charge, constant pressure 13.8 \pm 0.1 V charging.

Charging Voltage vs. Ambient Temperature Curve



Capacity vs. Operating Temperature Curve

