VRLA 12V125AH SA12V125C

Specifications

Nominal Voltage	12 V
Nominal Capacity 20HR	125AH
Dimensions	Length 330±1mm (12.99 inches) Width 172±1mm (6.77 inches) Container Height 217±1mm (8.54 inches) Total Height (with terminal) 220±1mm (8.66 inches)
Approx Weight	Approx 31.5 kg
Terminal	M8
Container Material	ABS Plastic
Lead Material	Purity Lead 99.995%
Sulfurid Acid	Distilled Sulfurid Acid (Zero metal content)
Separator	AGM
Rated Capacity	125.0 AH/6.25A (20hr, 1.80V/cell, 25°C/77°F) 115.0 AH/11.5A (10hr, 1.80V/cell, 25°C/77°F) 101.0 AH/20.2A (5hr, 1.75V/cell, 25°C/77°F) 85.7 AH/28.5A (3hr, 1.75V/cell, 25°C/77°F) 68.4 AH/68.4A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1200A (5s)
Internal Resistance	Approx 4.9mΩ
Operating Temp.Range	Discharge : -15 - 50°C (5 - 122°F) Charge : 0 - 40°C (32 - 104°F) Storage : -15 - 40°C (5 - 104°F)
Nominal Operating Temp.Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 36.0A. Voltage 14.4V - 14.7V at 25°C (77°F) Temp.Coefficient -30mV/°C
Standby Use	No limit on Initial Charging Current Voltage 13.5V - 13.8V at 25°C (77°F) Temp.Coefficient -20 mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Zeal AGM series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

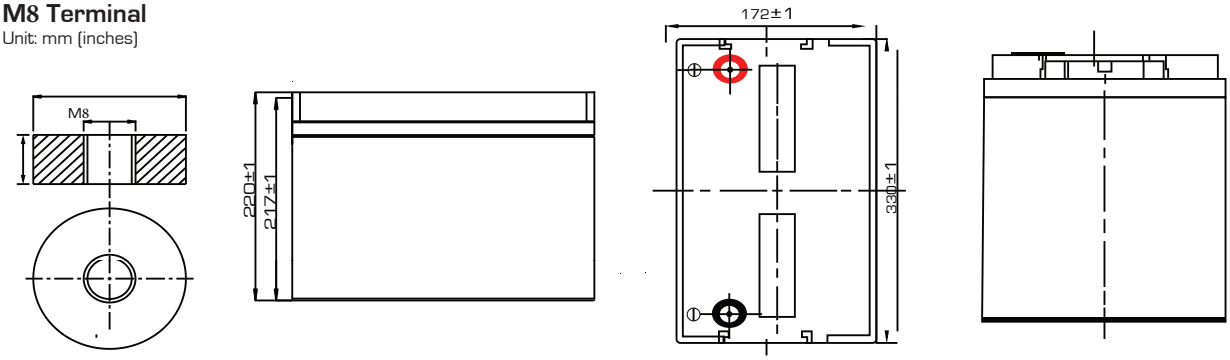
Applications

- All purpose
- Standby Applications
- Recreation Vehicles
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Fire & Security
- Generators
- Medical Equipment

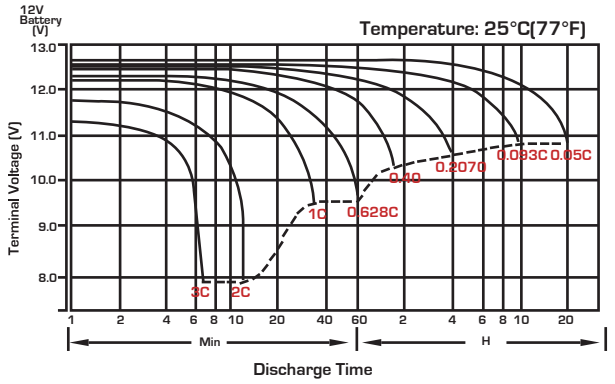
Dimensions

M8 Terminal

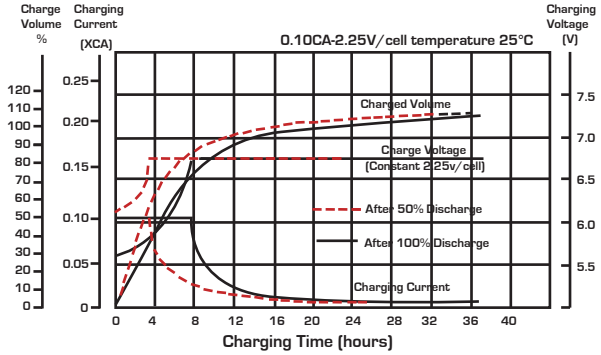
Unit: mm (inches)



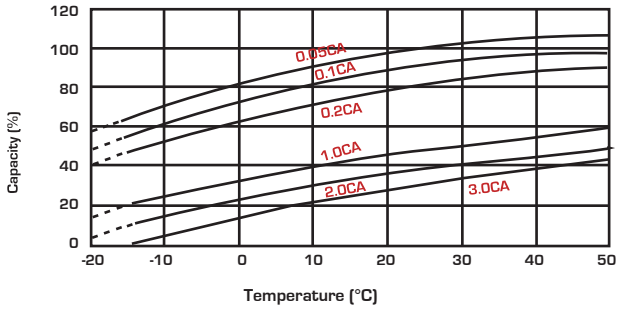
Discharge Characteristics



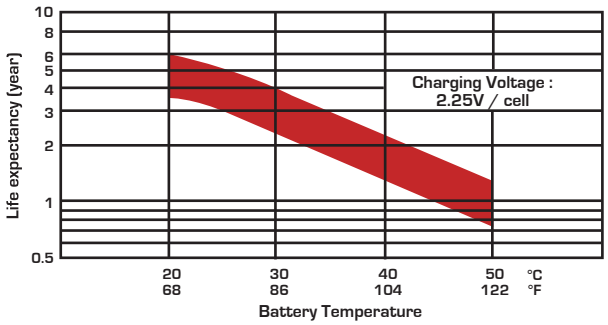
Float Charging Characteristics



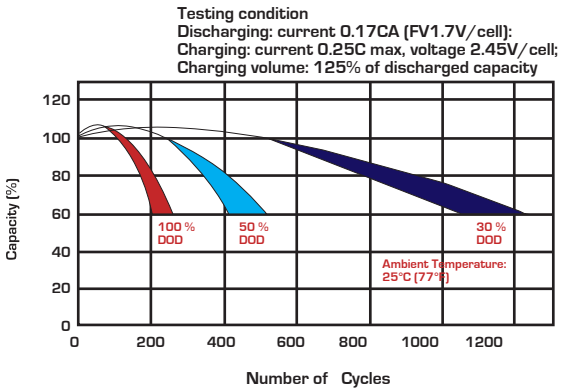
Temperature Effects in Relation to Battery Capacity



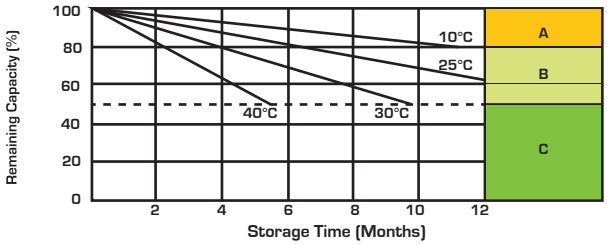
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required

Supplementary charge required before use. Optional charging way as follows the table charging system.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing still this is reached.

Charging System

D O D	Currency Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	10
	0.20C_{10}		8
50	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	15
	0.20C_{10}		12
80	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	16
	0.20C_{10}		14
100	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	20
	0.20C_{10}		18

State of Charge (SOC)

Open Circuit Voltage (V/cell)	Open Circuit Voltage (12V/cell)	Open Circuit Voltage (6V/cell)	State of Charge (% of full charge capacity)
2.14-2.15	12.84-12.90	6.42-6.46	100
2.12-2.13	12.72-12.78	6.36-6.39	90
2.11	12.66	6.33	80
2.09	12.54	6.27	70
2.07	12.42	6.21	60
2.05	12.30	6.15	50

SPB
Sealed Performance Batteries

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