



# 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 30.0 kg
Terminal	M6
Container Material	ABS Plastic
Lead Material	Purity Lead 99.995%
Sulfuric Acid	Distilled Sulfuric 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.



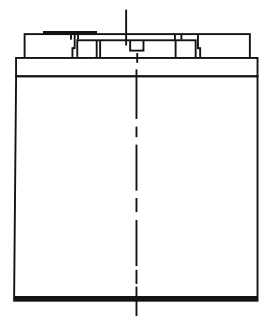
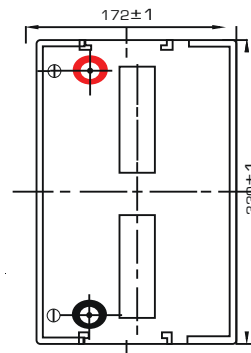
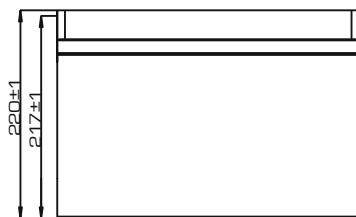
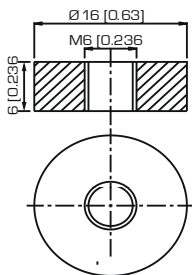
## Applications

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

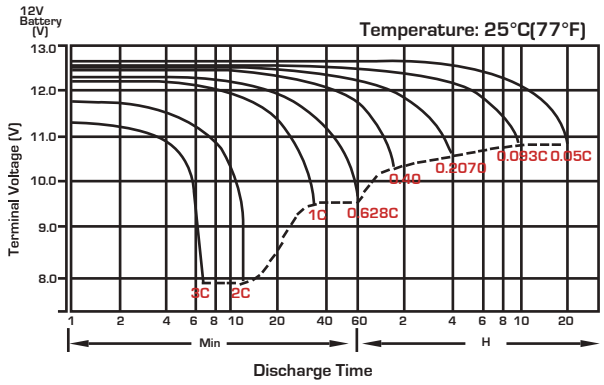
## Dimensions

### ▲ M6 Terminal

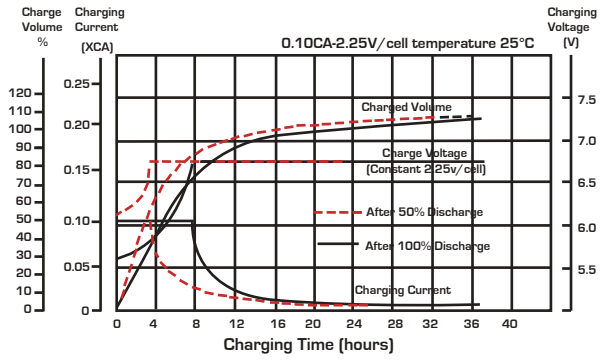
Unit: mm (inches)



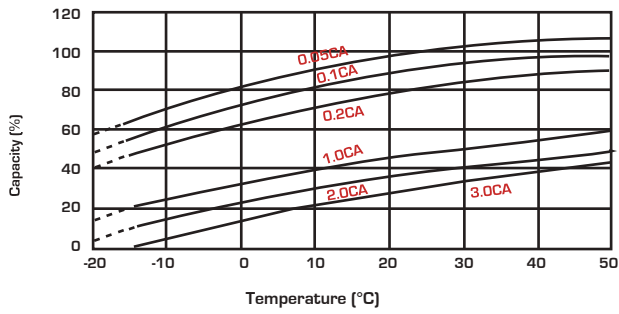
## Discharge Characteristics



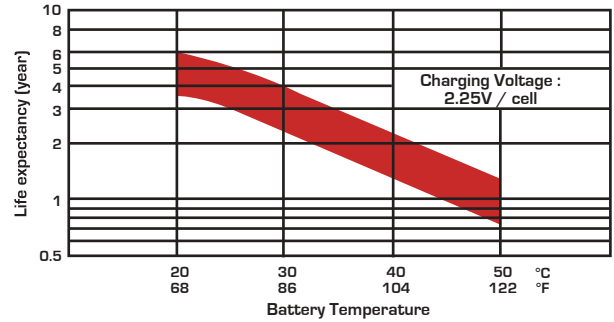
## Float Charging Characteristics



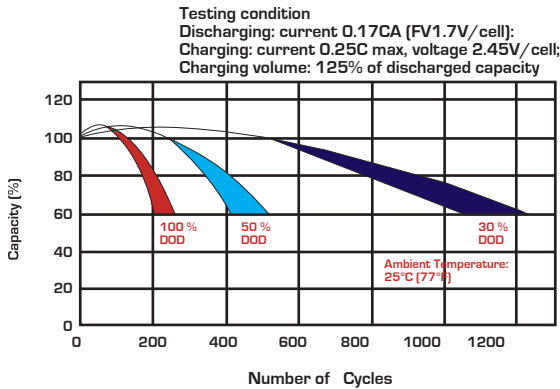
## Temperature Effects in Relation to Battery Capacity



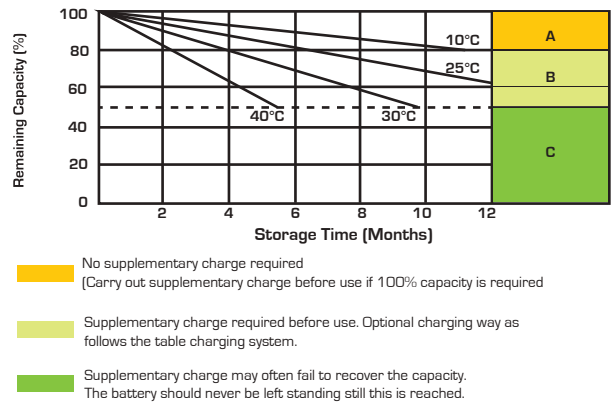
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Charging System

DOD	Current Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	10
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	8
50	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	15
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	12
80	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	16
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	14
100	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	20
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	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



Sealed Performance Batteries

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