

## SLA1189

### Technical Specifications

Nominal Voltage	12V
Nominal Capacity	100Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

### Physical Specifications

Length	307mm	12.09in
Width	168mm	6.61in
Height	208mm	8.19in
Height w/Terminal	214mm	8.43in
Weight (+/- 5%)	29.5Kg	64.9bs
Terminal Type	INSERT	
Case Material	ABS	

### Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.5V~13.8V	2.25V~2.30V
Cycle	14.4V~15.0V	2.40V~2.50V
Max. Charge Current	30A	

### Capacity Specifications

5 Second Discharge Current	1200A
Self Discharge (to 80% capacity)	3 Months 94%
	6 Months 85%
	12 Months 64%
Internal Resistance	5mΩ(25°C)

### Temperature Specifications

Operating Temperature Capability -40° F (-40° C) to 140° F (60° C)

Recommended parameters for optimal battery life and performance:

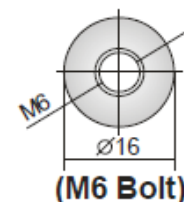
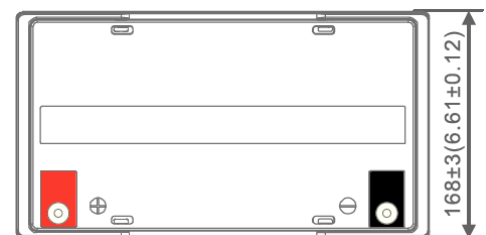
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

Storage: 50° to 77° F (10° C to 25° C)

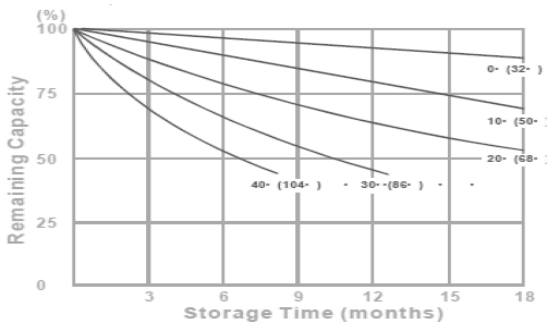


### FEATURES:

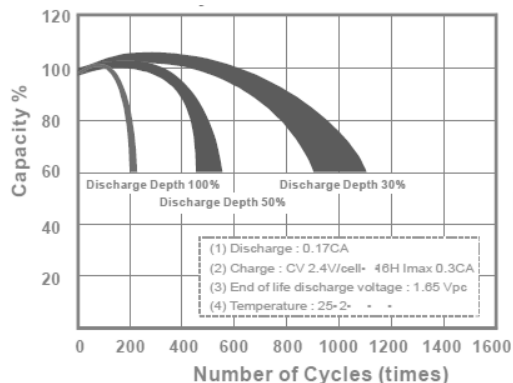
- Used in several types of application
- Approved for all modes of transport
- More efficient connections between plates & terminals
- VRLA technology to eliminate spills and over-pressure
- Maintenance-free



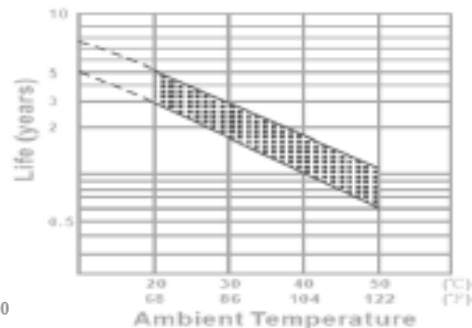
**Capacity Retention Characteristics**



**Cycle Service Life**



**Trickle (of float) Service Life**



**Constant Current Discharge Characteristics: A (25°C)**

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	202	71.2	43.6	22.6	16.1	16.1	5.09
1.80V/cell	267	83.7	50.8	23.7	16.7	16.7	5.26
1.75V/cell	305	92.1	56.5	24.8	17.2	17.2	5.38
1.70V/cell	336	101.0	60.6	25.7	17.6	17.6	5.48
1.67V/cell	346	103.0	61.5	26.1	17.8	17.8	5.53
1.60V/cell	375	111.0	64.9	27.2	18.1	18.1	5.64

**Constant Power Discharge Characteristics: W (25°C)**

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	458	163	112	47.2	31.3	18.0	10.4
1.80V/cell	512	174	116	49.7	32.8	19.2	10.7
1.75V/cell	549	183	119	51.8	34.2	20.0	11.0
1.70V/cell	584	191	122	52.2	35.2	20.8	11.2
1.67V/cell	600	195	123	53.0	35.5	21.2	11.3
1.60V/cell	649	206	126	55.2	36.7	21.8	11.5

