

SLA1075

Technical Specifications

| | |
|------------------|--------------------------------|
| Nominal Voltage | 12V |
| Nominal Capacity | 8Ah (20 Hr Rate to 1.75V/cell) |
| Chemistry | Lead Acid -AGM |

Physical Specifications

| | | |
|-------------------|--------|---------|
| Length | 151mm | 5.94in |
| Width | 65mm | 2.56in |
| Height | 94mm | 3.70in |
| Height w/Terminal | 100mm | 3.94in |
| Weight (+/- 5%) | 2.2 Kg | 4.85lbs |
| Terminal Type | F1 | |
| Case Material | ABS | |

Charging Specifications

| Charge Voltage | Battery | Per Cell |
|---------------------|-------------|-------------|
| Float | 13.7V~13.9V | 2.28V~2.32V |
| Cycle | 14.6V~14.8V | 2.43V~2.47V |
| Max. Charge Current | 2.4A | |

Capacity Specifications

| | |
|----------------------------------|---------------|
| 5 Second Discharge Current | 80A |
| Self Discharge (to 80% capacity) | 3 Months 91% |
| | 6 Months 82% |
| | 12 Months 64% |
| Internal Resistance | 25mΩ(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)

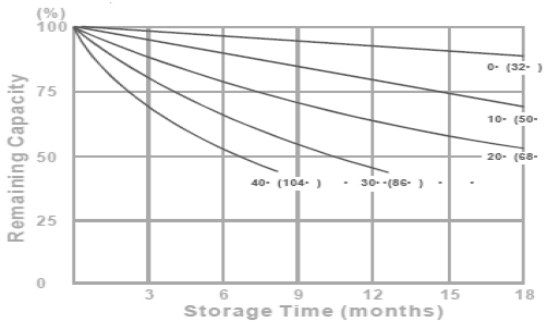


FEATURES:

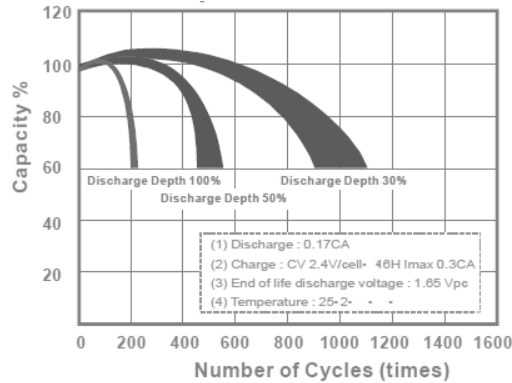
- Used in several types of application
- Approved for all modes of transport
- More efficient connections between plates & terminals
- VRLA technology to eliminate spills and over-pressure
- Maintenance-free



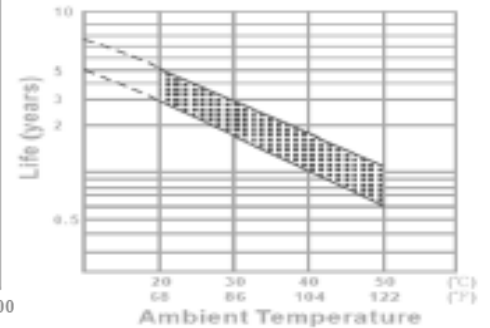
Capacity Retention Characteristics



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 | 20.49 | 6.92 | 4.23 | 1.91 | 1.31 | 0.89 | 0.38 |
| 1.80V/cell | 23.29 | 7.46 | 4.50 | 2.00 | 1.36 | 0.92 | 0.40 |
| 1.75V/cell | 25.56 | 7.89 | 4.72 | 2.07 | 1.40 | 0.94 | 0.40 |
| 1.70V/cell | 27.36 | 8.21 | 4.88 | 2.12 | 1.43 | 0.96 | 0.41 |
| 1.67V/cell | 28.77 | 8.47 | 5.01 | 2.16 | 1.45 | 0.97 | 0.41 |
| 1.60V/cell | 29.84 | 8.66 | 5.10 | 2.19 | 1.47 | 0.98 | 0.42 |

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 | 38.60 | 13.41 | 8.27 | 3.79 | 2.61 | 1.46 | 0.77 |
| 1.80V/cell | 43.10 | 14.32 | 8.75 | 3.95 | 2.70 | 1.51 | 0.79 |
| 1.75V/cell | 46.49 | 14.99 | 9.13 | 4.06 | 2.77 | 1.54 | 0.81 |
| 1.70V/cell | 48.89 | 15.46 | 9.40 | 4.15 | 2.82 | 1.57 | 0.83 |
| 1.67V/cell | 50.83 | 15.84 | 9.61 | 4.21 | 2.86 | 1.59 | 0.83 |
| 1.60V/cell | 51.37 | 15.96 | 9.68 | 4.24 | 2.88 | 1.60 | 0.83 |

