

SLA1104

Technical Specifications

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

Physical Specifications

| | | |
|-------------------|-------|---------|
| Length | 151mm | 5.94in |
| Width | 98mm | 3.86in |
| Height | 95mm | 3.74in |
| Height w/Terminal | 101mm | 3.98in |
| Weight (+/- 5%) | 3.3Kg | 7.28lbs |
| Terminal Type | F2 | |
| 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 | 3.6A | |

Capacity Specifications

| | | |
|----------------------------------|--------------|-----|
| 5 Second Discharge Current | 120A | |
| Self Discharge (to 80% capacity) | 3 Months | 91% |
| | 6 Months | 82% |
| | 12 Months | 64% |
| Internal Resistance | 16.5mΩ(25°C) | |

Temperature Specifications

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

Recommended parameters for optimal battery life and performance:

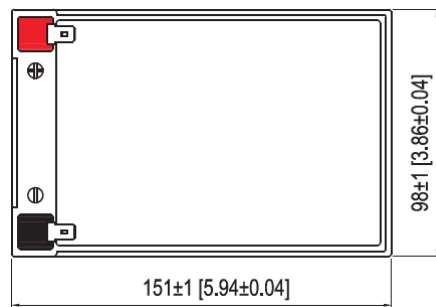
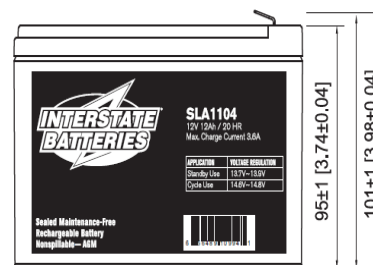
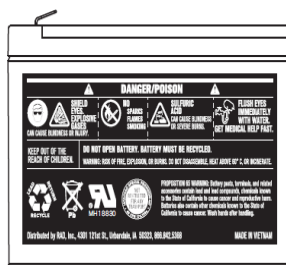
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

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

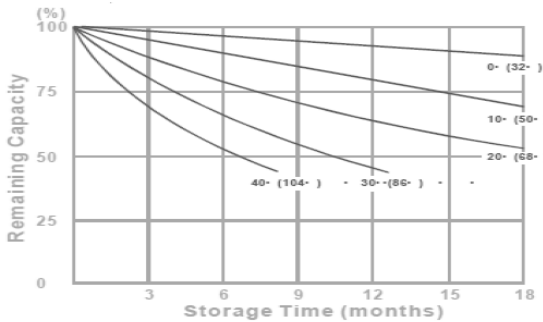


FEATURES:

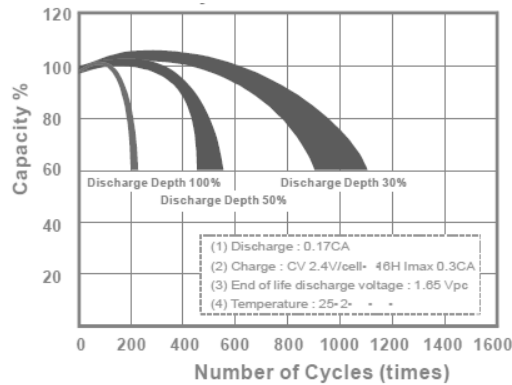
- Used in several types of application
- Approved for all modes of transport
- More efficient connections between plates & terminals
- VRLA technology to eliminate spills and over-pressure
- Maintenance-free



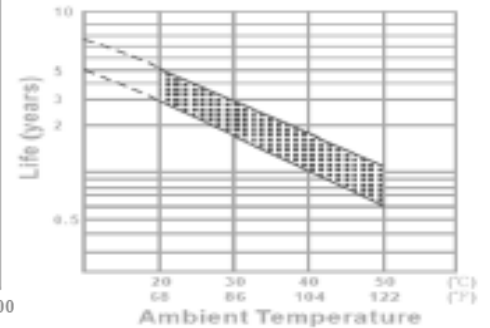
Capacity Retention Characteristics



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 | 31.69 | 10.48 | 6.34 | 2.87 | 1.96 | 1.09 | 0.58 |
| 1.80V/cell | 36.01 | 11.30 | 6.76 | 3.01 | 2.04 | 1.13 | 0.59 |
| 1.75V/cell | 39.53 | 11.95 | 7.08 | 3.10 | 2.10 | 1.15 | 0.60 |
| 1.70V/cell | 42.32 | 12.45 | 7.33 | 3.18 | 2.15 | 1.17 | 0.61 |
| 1.67V/cell | 44.48 | 12.83 | 7.51 | 3.24 | 2.18 | 1.19 | 0.62 |
| 1.60V/cell | 46.15 | 13.11 | 7.65 | 3.28 | 2.21 | 1.20 | 0.63 |

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 | 59.69 | 20.32 | 12.41 | 5.68 | 3.91 | 2.19 | 1.16 |
| 1.80V/cell | 66.65 | 21.70 | 13.13 | 5.92 | 4.05 | 2.26 | 1.19 |
| 1.75V/cell | 71.89 | 22.71 | 13.69 | 6.10 | 4.16 | 2.31 | 1.21 |
| 1.70V/cell | 75.60 | 23.42 | 14.10 | 6.22 | 4.23 | 2.35 | 1.23 |
| 1.67V/cell | 78.60 | 24.00 | 14.41 | 6.32 | 4.29 | 2.38 | 1.24 |
| 1.60V/cell | 79.43 | 24.18 | 14.53 | 6.36 | 4.32 | 2.40 | 1.25 |