# SH1275 12V 7.5Ah (20Hr)

## Sealed Lead-Acid (SLA) Battery

### General Features

- Non-spillable contruction design
- Long life span 5 years in floating condition
- High quality AGM separator: extend cycle life and prevents micro short circuit
- 99.99% pure lead plates ensure high quality and high reliability
- ABS material
- Valved Regulated Lead-Acid (VRLA) battery

### Applications

- Fire & Security
- Alarm & Portable lights
- Power tools & Toys
- Emergency power systems

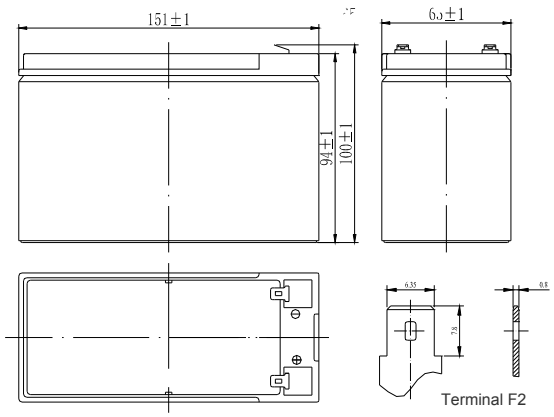



### Specifications

| | |
|---|---|
| Nominal Voltage | 12 V |
| Number of cell | 6 |
| Design Floating Life @25°C | 5 years |
| Nominal Capacity @25°C | |
| 20 hour rate (0.38A, 10.8V) | 7.5 Ah |
| 10 hour rate (0.71A, 10.8V) | 7.1 Ah |
| 5 hour rate (1.34A, 10.5V) | 6.7 Ah |
| 1 hour rate (4.95A, 9.6V) | 4.95 Ah |
| Internal Resistance | ≤ 21mΩ |
| Self-Discharge @25°C per month | 3% |
| Operating Temperature: Discharge | -15°C~45°C |
| Charge | -15°C~45°C |
| Storage | -15°C~45°C |
| Maximum Discharge Current @25°C | 45A (5s) |
| Charge (Constant Voltage) @25°C | |
| Cycle Use | 14.4 - 14.8 V |
| Maximum charging current | 2.25A |
| Temperature compensation | -30mV/°C |
| Standby Use | 13.5 - 13.8 V |
| Temperature compensation | -20mV/°C |

### Dimensions and Terminal

| | |
|---|---|
| Length (mm/inch) | 151/5.95 |
| Width (mm/inch) | 65/2.56 |
| Height (mm/inch) | 94/3.71 |
| Total height (mm/inch) | 100/3.94 |
| Weight (kg/lbs) | 2.2/4.84 |




### Battery Construction

| | |
|---|---|
| Positive plate: | Thick high Sn low Ca grid with special paste |
| Negative plate: | Balanced Pb-Ca grid improved recombination efficiency |
| Container and cover: | ABS-HB |
| Safety valve: | Flame Si-Rubber and aging resistance |
| Terminal: | F2 |
| Separator: | Advanced AGM separator for high pressure cell design |
| Electrolyte: | Dilute high purity sulfuric acid |
| Pillar seal: | Two layers epoxy resin seal |

### Discharge Constant Current (Amperes at 25°C)

| F.V/Time | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|
| 1.60V | 12.42 | 8.25 | 4.95 | 2.12 | 1.41 | 0.79 | 0.41 |
| 1.65V | 12.19 | 8.10 | 4.86 | 2.08 | 1.39 | 0.77 | 0.41 |
| 1.70V | 11.96 | 7.95 | 4.77 | 2.04 | 1.36 | 0.76 | 0.40 |
| 1.75V | 11.74 | 7.80 | 4.68 | 2.00 | 1.34 | 0.74 | 0.39 |
| 1.80V | 11.29 | 7.50 | 4.50 | 1.93 | 1.28 | 0.71 | 0.38 |

### Discharge Constant Power (Watts at 25°C)

| F.V/Time | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|
| 1.60V | 23.90 | 15.88 | 9.53 | 4.08 | 2.72 | 1.51 | 0.79 |
| 1.65V | 23.46 | 15.59 | 9.36 | 4.01 | 2.67 | 1.48 | 0.78 |
| 1.70V | 23.03 | 15.30 | 9.18 | 3.93 | 2.62 | 1.46 | 0.77 |
| 1.75V | 22.60 | 15.02 | 9.01 | 3.86 | 2.57 | 1.43 | 0.75 |
| 1.80V | 21.73 | 14.44 | 8.66 | 3.71 | 2.47 | 1.37 | 0.72 |

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