



## VRLA Rechargeable Battery

# SHR3.6-12



### FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed for high rate usage
- Absorbent Glass Mat technology for efficient gas recombination
- The power density at 2 min~15min discharging
- rate is 50% higher than BP series

### APPLICATIONS

- UPS
- Fishing Lights
- Power Packs
- Laboratory Equipment
- Fishing Lights Booster
- Toy-Cars



### SPECIFICATIONS

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 V                                                                                                    |
| Nominal Capacity            | 15 Min Rate (13W, 1.60V/Cell)                                                                           |
| Approx. Weight              | 930g(2.05lbs.)                                                                                          |
| Terminals                   | T2 (Faston Tab 250)                                                                                     |
| Internal Resistance         | $\leq 27m\Omega$ (Fully Charged )                                                                       |
| Max. Discharge Current      | 45 A (5 sec.)                                                                                           |
| Max. Charge Current         | 1.0 A                                                                                                   |
| Operating Temperature Range | Charge : 0°C~40°C(32°F~104°F)<br>Discharge : -20°C~50°C(-4°F~122°F)<br>Storage : -20°C~40°C(-4°F~104°F) |
| Container Material          | Standard: ABS( UL94 HB) SHR3.6-12<br>Optional: Flame Retardant ABS(UL94 V-0) SHR3.6-12FR                |

**RA**  
MH19884



- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

| DIMENSION(mm/inch)                                                                                                                                                           | OUTER DIMENSIONS | TERMINAL TYPE          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------|
| <b>Length</b><br>102±1.5 (4.02±0.06)<br><b>Width</b><br>48±1.5 (1.89±0.06)<br><b>Container Height</b><br>65.5±1.5 (2.58±0.06)<br><b>Total Height</b><br>70.5±2.0 (2.78±0.08) |                  | <b>Terminal T2</b><br> |

| Constant power discharge characteristics at 25 °C/77 °F |       |       |       |        |        |        |        |        |        |        | Unit: W |
|---------------------------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| Discharge Time<br>F.V.<br>(V/cell)                      | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
| 1.80V                                                   | 249   | 210   | 158   | 101    | 75     | 61     | 45     | 34     | 30     | 26     | 14      |
| 1.75V                                                   | 267   | 225   | 170   | 107    | 77     | 63     | 46     | 35     | 31     | 27     | 14      |
| 1.70V                                                   | 280   | 236   | 176   | 108    | 78     | 64     | 47     | 36     | 31     | 27     | 14      |
| 1.67V                                                   | 286   | 243   | 180   | 109    | 78     | 64     | 47     | 36     | 31     | 27     | 15      |
| 1.60V                                                   | 292   | 250   | 185   | 110    | 78     | 64     | 47     | 37     | 31     | 27     | 15      |
| 1.50V                                                   | 298   | 255   | 186   | 110    | 78     | 64     | 47     | 37     | 31     | 27     | 15      |

| Constant current discharge characteristics at 25 °C/77 °F      Unit: A |       |       |       |        |        |        |        |        |        |        |         |
|------------------------------------------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| F.V.<br>(V/cell)<br>Discharge<br>Time                                  | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
| 1.80V                                                                  | 22.9  | 19.3  | 14.2  | 8.8    | 6.5    | 5.2    | 3.8    | 3.0    | 2.5    | 2.2    | 1.2     |
| 1.75V                                                                  | 24.6  | 20.8  | 15.3  | 9.4    | 6.7    | 5.4    | 3.9    | 3.1    | 2.6    | 2.3    | 1.2     |
| 1.70V                                                                  | 26.0  | 21.8  | 15.9  | 9.6    | 6.8    | 5.5    | 4.0    | 3.1    | 2.6    | 2.3    | 1.2     |
| 1.67V                                                                  | 26.5  | 22.5  | 16.6  | 9.7    | 6.8    | 5.5    | 4.0    | 3.1    | 2.6    | 2.3    | 1.2     |
| 1.60V                                                                  | 27.1  | 23.1  | 17.2  | 9.8    | 6.8    | 5.5    | 4.0    | 3.1    | 2.6    | 2.3    | 1.2     |
| 1.50V                                                                  | 27.7  | 23.6  | 17.4  | 9.8    | 6.8    | 5.5    | 4.0    | 3.1    | 2.6    | 2.3    | 1.2     |