



## VRLA Rechargeable Battery

# SHR24-12S

### 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
- Its design life is up to 5 years in floating application
- 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
- Jump Starter
- Laboratory Equipment
- Fishing Lights Booster



Measures

Technology

Values

Innovation



### SPECIFICATIONS

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 V                                                                                                     |
| Nominal Capacity            | 15 Min Rate (96W, 1.30V/Cell)                                                                            |
| Approx. Weight              | 6.95Kgs(15.3lbs.)                                                                                        |
| Terminals                   | I2 (M6 Female thread), I1 is optional                                                                    |
| Internal Resistance         | $\leq 7.5m\Omega$ (Fully Charged)                                                                        |
| Max. Charge Current         | 7.20 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) SHR24-12S<br>Optional: Flame Retardant ABS(UL94 V-0) SHR24-12SFR                  |

**RU**  
MH19884

**CE**  
C4M20310-2474-E-16

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

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

#### Length

181±1.5(7.13±0.06)

#### Width

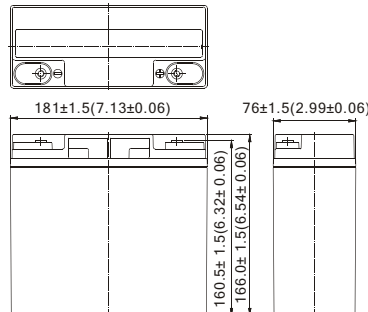
76±1.5(2.99±0.06)

#### Container Height

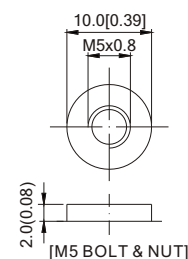
166±1.5(6.54±0.06)

#### Total Height

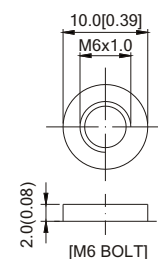
166±1.5(6.54±0.06)



#### Terminal I1



#### Terminal I2



### Constant power discharge characteristics at 25 °C/77 °F

Unit: W

| Discharge Time<br>F.V.<br>(V/cell) | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V                              | 984   | 672.0  | 486.7  | 415.2  | 315.6  | 240.0  | 200.4  | 176.4  | 97.3    |
| 1.70V                              | 1176  | 750.0  | 529.2  | 439.9  | 328.8  | 249.1  | 207.1  | 180.7  | 99.2    |
| 1.60V                              | 1260  | 789.1  | 553.2  | 456.0  | 336.0  | 255.1  | 211.2  | 183.6  | 100.8   |
| 1.50V                              | 1296  | 804.0  | 565.2  | 463.2  | 340.3  | 258.0  | 213.6  | 185.5  | 101.3   |
| 1.40V                              | 1320  | 814.8  | 571.9  | 467.5  | 342.7  | 259.9  | 215.5  | 186.7  | 101.6   |
| 1.30V                              | 1332  | 822.0  | 576.0  | 470.4  | 344.4  | 261.1  | 216.7  | 187.2  | 101.9   |

### Constant current discharge characteristics at 25 °C/77 °F

| Discharge Time<br>F.V.<br>(V/cell) | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V                              | 87.9  | 58.95  | 42.10  | 35.61  | 26.75  | 20.18  | 16.77  | 14.71  | 8.11    |
| 1.70V                              | 106.9 | 65.79  | 45.77  | 37.72  | 27.86  | 20.95  | 17.32  | 15.05  | 8.27    |
| 1.60V                              | 114.6 | 69.22  | 47.86  | 39.11  | 28.47  | 21.45  | 17.67  | 15.31  | 8.40    |
| 1.50V                              | 117.8 | 70.53  | 48.89  | 39.73  | 28.83  | 21.70  | 17.87  | 15.46  | 8.44    |
| 1.40V                              | 120.0 | 71.48  | 49.47  | 40.09  | 29.04  | 21.85  | 18.03  | 15.56  | 8.47    |
| 1.30V                              | 121.1 | 72.11  | 49.82  | 40.34  | 29.18  | 21.96  | 18.13  | 15.60  | 8.49    |

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

For operation, please refer to the instruction from technical manual.

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