



VRLA Rechargeable Battery

MPL90-12 Standard Type



FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Low self-discharge rate, lower than 3% capacity loss per month
- Can be used in any orientation(excluding used inverted)
- The battery is designed with very lower resistance and exceeding high power performance
- Flame-arrestor is installed to ensure safety
- Absorbent Glass Mat technology for efficient gas recombination

APPLICATION

- UPS
- Telecom
- Golf-Carts
- Cable TV
- Power station
- Marine



SPECIFICATIONS

| | |
|-----------------------------|---|
| Nominal Voltage | 12 V |
| Nominal Capacity | 88Ah @ 10 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 29.8Kg(65.7lbs.) |
| Terminals | B3 (Fitting M6 bolt & nut) I2 is optional |
| Internal Resistance | ≤4mΩ (Fully Charged) |
| Max. Charge Current | 26.4 A |
| Cold Cranking Amp @ -18°C | 780 A |
| Short Circuit Current | 2450 A |
| Operating Temperature Range | Charge : 0°C~50°C(32°F~122°F) Discharge : -20°C~60°C(-4°F~140°F) Storage : -20°C~50°C(-4°F~122°F) |
| Container Material | Standard: PP(UL 94-HB) MPL90-12 Optional: Flame Retardant PP(UL 94-V0) MPL90-12FR |

WSF ISO9001 **RA** MH19884

WSF ISO14001 **CE** CAM20310-2474-E-16

WSF OHSMS

- IEC60896-21/22
- JIS C 8704-2
- GB/T 19638.2

| DIMENSION(mm/inch) | OUTER DIMENSIONS | TERMINAL TYPE |
|---|------------------|--|
| <p>■ Length 306±2.0 (12.05±0.08)</p> <p>■ Width 173±2.0 (6.81±0.08)</p> <p>■ Container Height 200±2.0 (7.87±0.08)</p> <p>■ Total Height B3:230±2.0 (9.06±0.08) I2:207±2.0 (8.15±0.08)</p> | | <p>● Terminal I2 ● Terminal B3</p> <p>Terminal Hardware Initial Torque: B3,I2(5.5Nm±5%)</p> |

Constant power discharge characteristics at 25 °C/77 °F Unit: W

| Discharge Time F.V. (V/cell) | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 40 Min | 50 Min | 60 Min | 90 Min |
|------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.80V | 3117 | 2291 | 1903 | 1591 | 1379 | 1211 | 975 | 818 | 709 | 504 |
| 1.75V | 3494 | 2459 | 2013 | 1653 | 1420 | 1242 | 995 | 835 | 720 | 512 |
| 1.70V | 3726 | 2560 | 2082 | 1696 | 1448 | 1262 | 1009 | 845 | 728 | 518 |
| 1.65V | 3878 | 2639 | 2129 | 1728 | 1471 | 1276 | 1021 | 854 | 735 | 522 |
| 1.60V | 3993 | 2690 | 2160 | 1751 | 1489 | 1288 | 1031 | 861 | 741 | 525 |

Constant current discharge characteristics at 25 °C/77 °F Unit: A

| Discharge Time F.V. (V/cell) | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 40 Min | 50 Min | 60 Min | 90 Min |
|------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.80V | 290 | 201 | 165 | 136 | 116 | 101 | 81 | 68 | 59.6 | 42.3 |
| 1.75V | 318 | 217 | 174 | 142 | 121 | 105 | 83 | 70 | 60.5 | 43.0 |
| 1.70V | 339 | 226 | 180 | 146 | 124 | 107 | 85 | 71 | 61.2 | 43.5 |
| 1.65V | 352 | 233 | 185 | 149 | 126 | 109 | 86 | 72 | 61.8 | 43.9 |
| 1.60V | 363 | 237 | 188 | 151 | 128 | 110 | 87 | 72 | 62.2 | 44.2 |

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