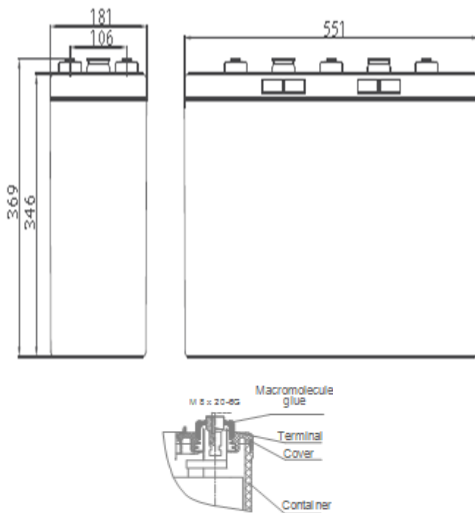




# HIGH PERFORMANCE MR 2-1500 Max

VALVE REGULATED LEAD ACID  
2V FLAT PASTED PLATE  
BATTERY

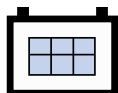


## Innovative Features

- ◆ Valve Regulated Lead Acid (V.R.L.A.) design
- ◆ Fully tank formed plates
- ◆ Never needs addition of water
- ◆ Spill-proof and leak-proof
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ◆ Operates at a low internal pressure
- ◆ For use in vertical or horizontal position
- ◆ Each cell has a low pressure safety release venting system
- ◆ Standard: Reinforced ABS (UL 94HB) container and cover.  
Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%
- ◆ Nano-Carbon enhanced active material to maximize cycle performance and PSoC operation
- ◆ Low calcium Lead/Tin alloy plates for efficient gas recombination for long life in both cycling and float applications

## Performance Specifications

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| Normal Voltage                            | 2V                                                       |
| Capacity                                  | 1500 Ah @ 10hr to 1.80V per cell<br>@ 20°C (68°F)        |
| Dimension                                 | Length x Width x Height<br>551 x 181 x 369 (mm)          |
| Weight                                    | Approx. 85.5 kg (188 lbs)                                |
| Internal Resistance                       | Approx. 0.20 mΩ                                          |
| Short Circuit Current                     | 12500 A                                                  |
| Self Discharge<br>@ 25°C (77°F)           | No more than 3% after 30 days storage                    |
| Applicable Operating<br>Temperature Range | -40°C~70°C (40°F~158°F)                                  |
| Ideal Operating<br>Temperature Range      | 20°C~30°C (68°F~86°F)                                    |
| Maximum Charge Current                    | 300 A                                                    |
| Charging Voltage<br>@ 25°C (77°F)         | Float: 2.23V, Temps coefficient -3 mV/°C<br>Cycle: 2.30V |
| Contain Materials                         | ABS                                                      |
| Terminal Type                             | F-M8                                                     |
| Capacity Affected<br>by Temperature       | 105% @ 40°C<br>85% @ 0°C<br>60% @ -20°C                  |



Constant Current Discharge Characteristics - Watts Per Cell @ 20°C (68°F)

| Final VPC | 1.5hr | 2hr  | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr | 12hr | 20hr | 24hr |
|-----------|-------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 1.85      | 1180  | 985  | 735 | 576 | 479 | 420 | 341 | 282  | 240  | 196  | 132  |
| 1.80      | 1241  | 1037 | 775 | 607 | 505 | 442 | 360 | 298  | 254  | 208  | 139  |
| 1.75      | 1276  | 1067 | 799 | 626 | 522 | 457 | 371 | 307  | 262  | 214  | 144  |

Constant Power Discharge Characteristics - Amperes Per Cell @ 20°C (68°F)

| Final VPC | 1.5hr | 2hr | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr | 12hr | 20hr | 24hr |
|-----------|-------|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1.85      | 613   | 509 | 377 | 294 | 243 | 212 | 172 | 142  | 121  | 74.4 | 65.7 |
| 1.80      | 650   | 540 | 400 | 311 | 258 | 225 | 182 | 150  | 128  | 79.1 | 69.6 |
| 1.75      | 677   | 562 | 417 | 326 | 269 | 234 | 189 | 156  | 133  | 82.0 | 72.5 |

