

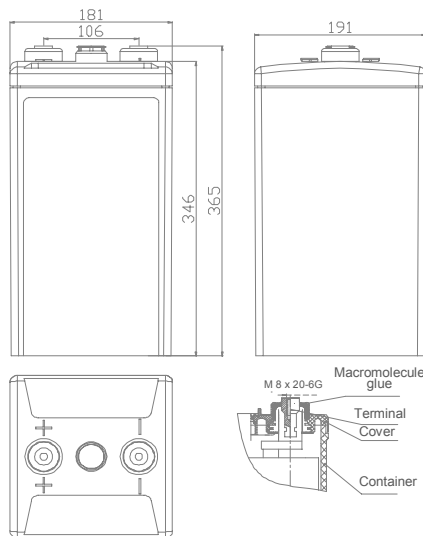


HIGH

PERFORMANCE

MR 2-500 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	500 Ah @ 10hr to 1.80V per cell @ 20°C (68°F)
Dimension	Length x Width x Height x Total Height: 191 x 181 x 346 x 365 (mm)
Weight	Approx. 28.0 kg (61.6 lbs)
Internal Resistance	Approx. 0.35 mΩ
Short Circuit Current	4100 A
Self Discharge @ 25°C (77°F)	No more than 3% after 30 days storage
Applicable Operating Temperature Range	-40°C~70°C (40°F~158°F)
Ideal Operating Temperature Range	20°C~30°C (68°F~86°F)
Maximum Charge Current	100 A
Charging Voltage @ 25°C (77°F)	Float: 2.23V, Temps coefficient -3 mV/°C Cycle: 2.30V
Contain Materials	ABS
Terminal Type	F-M8
Capacity Affected by Temperature	105% @ 40°C 85% @ 0°C 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	394	328	245	192	160	140	114	94.1	80.2	66.0	44.0
1.80	414	346	258	202	168	147	120	99.2	84.5	69.0	46.4
1.75	426	357	267	209	174	153	124	103	87.5	72.0	48.1

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	205	170	126	98.0	81.2	70.8	57.2	47.2	40.1	24.7	22.0
1.80	217	180	133	104	86.0	75.0	60.6	50.0	42.5	26.2	23.3
1.75	226	189	139	108	89.8	78.3	63.3	52.2	44.4	27.4	24.2

