

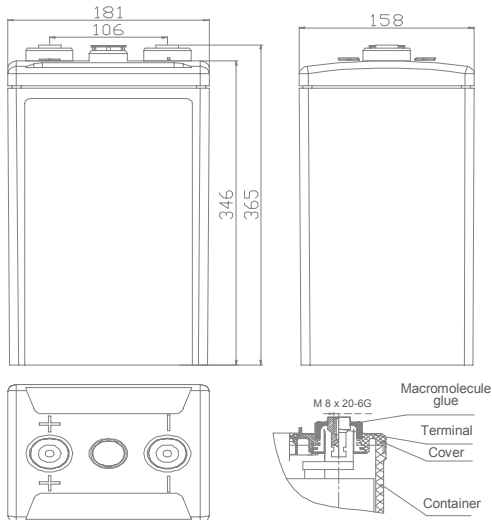


**HIGH**

**PERFORMANCE**

**MR 2-400 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**

<b>Normal Voltage</b>	2V
<b>Capacity</b>	400 Ah @ 10hr to 1.80V per cell @ 20°C (68°F)
<b>Dimension</b>	Length x Width x Height x Total Height: 158 x 181 x 346 x 365 (mm)
<b>Weight</b>	Approx. 23.0 kg (50.6 lbs)
<b>Internal Resistance</b>	Approx. 0.40 mΩ
<b>Short Circuit Current</b>	3220 A
<b>Self Discharge @ 25°C (77°F)</b>	No more than 3% after 30 days storage
<b>Applicable Operating Temperature Range</b>	-40°C~70°C (40°F~158°F )
<b>Ideal Operating Temperature Range</b>	20°C~30°C (68°F~86°F)
<b>Maximum Charge Current</b>	80 A
<b>Charging Voltage @ 25°C (77°F)</b>	Float: 2.23V, Temps coefficient -3 mV/°C Cycle: 2.30V
<b>Contain Materials</b>	ABS
<b>Terminal Type</b>	F-M8
<b>Capacity Affected by Temperature</b>	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	314	262	196	153	128	112	90.8	75.2	64.1	52.0	35.1
1.80	331	276	207	162	135	118	95.9	79.4	67.6	55.0	37.1
1.75	341	285	213	167	139	122	99.1	82.1	69.9	57.0	38.4

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	163	136	101	78.2	64.8	56.6	45.7	37.7	32.0	19.7	17.5
1.80	173	144	107	83.0	68.8	60.0	48.5	40.0	34.0	20.9	18.6
1.75	181	150	111	86.5	71.7	62.6	50.6	42.0	35.4	21.8	19.4

