



MGR 2-4000G

**VALVE REGULATED LEAD ACID
2 VOLT FLAT PASTED PLATE BATTERY
GELLED ELECTROLYTE TECHNOLOGY**

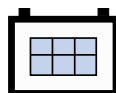
Innovative Features

- ☑ Valve regulated Lead Acid (V.R.L.A.) design;
- ☑ Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify – no equalization charge required. Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ☑ Microporous rubber and corrugated PVC SiO₂ separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- ☑ Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life - 18 years design life @20°C(68°F);
- ☑ Thickness positive plate plus optimized plate alloy to anticorrosion;
- ☑ Unique performance against high temperature;
- ☑ Non-gassing;
- ☑ Never needs addition of water;
- ☑ Spill-proof and leak-proof;
- ☑ Operates at a low internal pressure;
- ☑ For use in vertical or horizontal position;
- ☑ Each cell has a low pressure safety release venting system;
- ☑ Flame Retardant material V-0 optional.

HIGH PERFORMANCE

Performance Specifications

Normal Voltage	2V
Normal Capacity	4000Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 4519Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 261 kg (576 lbs)
Dimension	Length x Width x Height x Total Height: 710 x 350 x 345 x 351 mm
Internal Resistance	Approx. 0.06 mΩ @ 20°C (68°F)
Maximum Charge Current	800 A
Short Circuit Current	27500 A
Applicable Operating Temperature Range	-40°C (-40°F) to +70°C (+158°F)
Ideal Operating Temperature Range	+20°C (+68°F) to +35°C (+95°F)
Maximum Charge Voltage	2.40 VPC at 20°C /25°C
Float Voltage	2.25 VPC +/- 1% at 20°C /25°C
Cycle service	2.35 VPC +/- 1% at 20°C /25°C
Container & Cover	Standard: Reinforced ABS (UL 94HB) Optional: Flame-retardant reinforced ABS compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
NO. of Terminal	8
Terminal Type	(ST2) Copper Insert type terminal with 18 mm diameter insert.



Modular Gel Range VRLA

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Cell Type	Discharge Amps Per Cell @ 20°C (68°F)																				
	End VPC	Discharge Time In Minutes						End VPC	Discharge Time In Hours												
		5	10	15	30	45	60		1.5	2	3	4	5	6	8	10	12	20	24	48	100
MGR 2-4000G	1.80	6384	5472	4560	3512	2758	2281	1.85	1610	1302	981	764	634	560	457	377	321	206	176	90.4	46.4
	1.75	7504	6052	5180	3728	2929	2421	1.80	1707	1380	1040	810	672	593	485	400	340	218	186	95.8	49.2
	1.67	8372	7018	5762	3866	3004	2462	1.75	1781	1440	1085	845	701	619	506	418	354	226	193	99.9	51.3

Cell Type	Discharge Watts Per Cell @ 20°C (68°F)																				
	End VPC	Discharge Time In Minutes						End VPC	Discharge Time In Hours												
		5	10	15	30	45	60		1.5	2	3	4	5	6	8	10	12	20	24		
MGR 2-4000G	1.80	11491	9959	8368	6496	5242	4377	1.85	3098	2516	1912	1499	1249	1106	909	752	641	360	351		
	1.75	13357	10892	9376	6897	5448	4647	1.80	3258	2649	2015	1579	1316	1167	959	794	676	380	371		
	1.67	14400	12282	10314	7074	5588	4703	1.75	3357	2732	2081	1633	1362	1206	992	822	700	394	384		

