



MGR 2-3000G

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

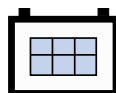
Innovative Features

- ☑ 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	3000Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 3395Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 210 kg (463 lbs)
Dimension	Length x Width x Height x Total Height: 710 x 350 x 345 x 351 mm
Internal Resistance	Approx. 0.08 mΩ @ 20°C (68°F)
Maximum Charge Current	600 A
Short Circuit Current	19980 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 2-3000G	1.80	4788	4104	3420	2633	2069	1710	1.85	1207	976	736	573	475	420	343	283	241	155	132	67.8	34.8
	1.75	5628	4539	3885	2796	2197	1815	1.80	1280	1035	780	608	504	445	364	300	255	163	139	71.9	36.9
	1.67	6279	5263	4321	2899	2253	1847	1.75	1335	1080	814	634	526	464	380	313	266	170	145	75.0	38.5

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 2-3000G	1.80	8618	7469	6276	4872	3931	3283	1.85	2323	1887	1434	1124	937	830	682	564	481	272	265
	1.75	10017	8169	7032	5172	4086	3486	1.80	2444	1987	1511	1185	987	875	719	595	507	286	279
	1.67	10800	7210	7735	5306	4191	3527	1.75	2517	2050	1561	1225	1021	905	744	616	525	296	289

