



## MGR 2-1800G

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

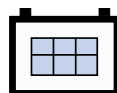
### Innovative Features

- ☑ 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 SiO<sub>2</sub> 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

<b>Normal Voltage</b>	2V
<b>Normal Capacity</b>	1800Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 2042Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
<b>Weight</b>	Approx. 120 kg (265 lbs)
<b>Dimension</b>	Length x Width x Height x Total Height: 490 x 350 x 345 x 351 mm
<b>Internal Resistance</b>	Approx. 0.10 mΩ @ 20°C (68°F)
<b>Maximum Charge Current</b>	360 A
<b>Short Circuit Current</b>	12300 A
<b>Applicable Operating Temperature Range</b>	-40°C (-40°F) to +70°C (+158°F)
<b>Ideal Operating Temperature Range</b>	+20°C (+68°F) to +35°C (+95°F)
<b>Maximum Charge Voltage</b>	2.40 VPC at 20°C /25°C
<b>Float Voltage</b>	2.25 VPC +/- 1% at 20°C /25°C
<b>Cycle service</b>	2.35 VPC +/- 1% at 20°C /25°C
<b>Container &amp; Cover</b>	<b>Standard:</b> Reinforced ABS (UL 94HB) <b>Optional:</b> Flame-retardant reinforced ABS compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
<b>NO. of Terminal</b>	8
<b>Terminal Type</b>	(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 2-1800G	1.80	2873	2462	2052	1580	1241	1026	1.85	725	586	442	344	285	252	206	170	145	92.7	79.2	41.3	21.2
	1.75	3377	2723	2331	1678	1319	1089	1.80	768	621	468	365	302	267	219	180	153	97.8	83.5	43.1	22.2
	1.67	3768	3158	2593	1740	1352	1108	1.75	801	648	489	381	316	279	228	188	159	102	87.2	45.6	23.4

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 2-1800G	1.80	5171	4482	3766	2923	2359	1970	1.85	1394	1132	860	675	563	498	410	338	289	162	158		
	1.75	6011	4902	4220	3104	2452	2092	1.80	1466	1193	906	711	592	525	431	357	304	171	167		
	1.67	6481	5527	4642	3184	2515	2117	1.75	1511	1230	937	734	613	543	446	370	315	177	173		

