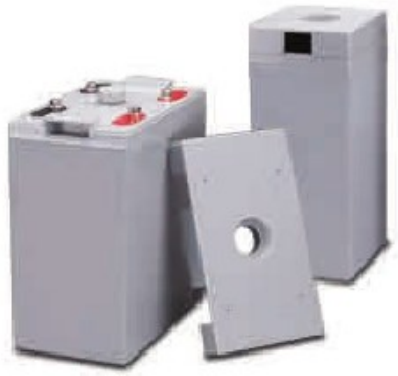
EverExceed®
power your applications

Modular Gel Range VRLA



MGR 2-800G

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

HIGH PERFORMANCE

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_2 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.

Performance Specifications

Normal Voltage	2V
Normal Capacity	800Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 908Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 57 kg (126 lbs)
Dimension	Length x Width x Height x Total Height: 410 x 175 x 330 x 336 mm
Internal Resistance	Approx. 0.20 mΩ @ 20°C (68°F)
Maximum Charge Current	160 A
Short Circuit Current	5300 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.

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Cell Type	Discharge Amps Per Cell @ 20ºC (68ºF)																				
	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 2-800G	1.80	1277	1094	912	702	552	456	1.85	322	260	196	153	127	112	91.5	75.5	64.2	41.0	35.0	18.1	9.29
	1.75	1501	1211	1036	746	586	484	1.80	341	276	208	162	134	119	97.0	80.0	68.0	43.4	37.1	19.2	9.84
	1.67	1675	1404	1153	773	601	493	1.75	356	288	217	169	140	124	101	83.5	71.0	45.4	38.8	20.0	10.3

Cell Type	Discharge Watts Per Cell @ 20ºC (68ºF)																		
	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 2-800G	1.80	2298	1992	1674	1299	1048	876	1.85	620	503	383	300	250	221	182	151	128	72.1	70.3
	1.75	2672	2179	1876	1380	1090	930	1.80	652	530	403	316	263	233	192	159	135	76.2	74.3
	1.67	2881	2457	2064	1415	1118	941	1.75	672	547	416	327	272	241	198	165	140	78.9	77