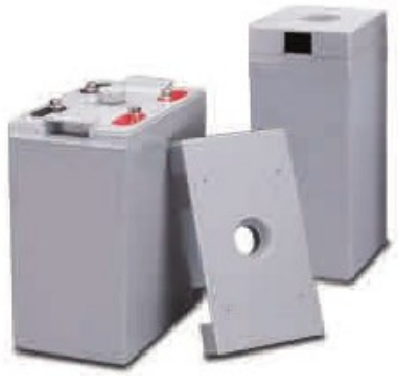
EverExceed®
power your applications

Modular Gel Range VRLA



MGR 2-1000G

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_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.

HIGH PERFORMANCE

Performance Specifications

Normal Voltage	2V
Normal Capacity	1000Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 1136Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 66 kg (146 lbs)
Dimension	Length x Width x Height x Total Height: 482 x 175 x 330 x 336 mm
Internal Resistance	Approx. 0.16 mΩ @ 20°C (68°F)
Maximum Charge Current	200 A
Short Circuit Current	6550 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 2-1000G	1.80	1596	1368	1140	878	690	570	1.85	402	325	245	191	158	140	114	94.3	80.2	51.3	43.8	22.6	11.6
	1.75	1875	1512	1295	932	732	605	1.80	427	345	260	203	168	148	121	100	85.0	54.3	46.4	24.0	12.3
	1.67	2092	1754	1440	966	751	615	1.75	445	360	271	211	175	155	126	104	88.7	56.8	48.5	25.0	12.8

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 2-1000G	1.80	2873	2490	2092	1624	1310	1094	1.85	774	629	478	375	312	277	227	186	160	90.0	87.8
	1.75	3338	2722	2343	1723	1361	1161	1.80	815	662	504	395	329	292	240	198	169	95.1	92.8
	1.67	3599	3069	2578	1768	1396	1175	1.75	839	683	520	408	340	302	248	205	175	98.5	96.1