EverExceed®
power your applications

Modular Gel Range VRLA

HIGH PERFORMANCE

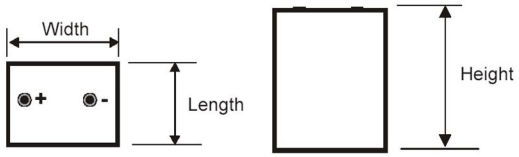
MGR 2-100G

VALVE REGULATED LEAD ACID

2 VOLT FLAT PASTED PLATE BATTERY

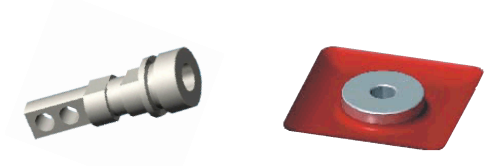
GELLED ELECTROLYTE TECHNOLOGY

Cell Dimensions for Rack Layout



L:171/6.74	W:102/4.02	H:211/8.31 (mm / inch)

Terminal Type



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	100 Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 113 Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 8.5 kg (18.7 lbs)
Internal Resistance	Approx. 2.00 mΩ @ 20°C (68°F)
Maximum Charge Current	20 A
Short Circuit Current	890 A
Electrolyte	Sulfuric acid thixotropic gel
Separators	Micro-porous duroplastic separator
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%.
Terminal	(ST1) Copper Insert type terminal with 16 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 2-100G	1.80	236	177	148	97	72.6	59	1.85	40.1	32.4	24.4	19.0	15.8	13.9	11.4	9.40	7.99	5.12	4.36	2.25	1.16
	1.75	250	187	156	102	76.8	62.4	1.80	42.7	34.5	26.0	20.3	16.8	14.8	12.1	10.0	8.5	5.41	4.64	2.40	1.23
	1.67	269	199	171	105	78.7	63.4	1.75	44.4	35.9	27.0	21.1	17.5	15.4	12.6	10.4	8.84	5.66	4.83	2.49	1.28

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 2-100G	1.80	425	322	271	179	138	113	1.85	77.2	62.7	47.6	37.3	31.1	27.6	22.6	18.7	16.0	8.98	8.76
	1.75	444	337	282	189	143	120	1.80	81.5	66.2	50.4	39.5	32.9	29.2	24.0	19.8	16.9	9.51	9.28
	1.67	465	358	307	193	146	121	1.75	83.6	68.1	51.9	40.7	33.9	30.1	24.7	20.5	17.4	9.83	9.59