



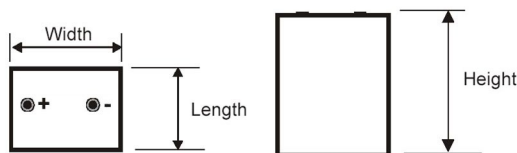
HIGH PERFORMANCE

MGR 2-150G

VALVE REGULATED LEAD ACID

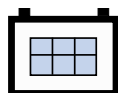
2 VOLT FLAT PASTED PLATE BATTERY
GELLED ELECTROLYTE TECHNOLOGY

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 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.

Performance Specifications

Normal Voltage	2V
Normal Capacity	150 Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 170 Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 11 kg (24.3 lbs)
Internal Resistance	Approx. 1.50 mΩ @ 20°C (68°F)
Maximum Charge Current	30 A
Short Circuit Current	1280 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

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.

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 2-150G	1.80	291	239	214	140	105	85.5	1.85	60.2	48.6	36.7	28.6	23.7	20.9	17.1	14.1	12.0	7.66	6.54	3.38	1.73
	1.75	308	253	226	148	111	90.5	1.80	64.0	51.8	39.0	30.4	25.2	22.3	18.2	15.0	12.8	8.15	6.96	3.59	1.85
	1.67	322	262	249	153	114	92	1.75	66.6	53.8	40.6	31.6	26.2	23.1	18.9	15.6	13.3	8.49	7.24	3.74	1.92

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 2-150G	1.80	523	436	392	259	200	164	1.85	116	94.0	71.5	56.0	46.7	41.3	34.0	28.1	24.0	13.4	13.1
	1.75	548	456	409	275	207	174	1.80	122	99	75.5	59.2	49.4	43.7	36.0	29.8	25.4	14.2	13.9
	1.67	554	459	427	280	212	176	1.75	125	102	77.8	61.0	50.9	45.1	37.1	30.7	26.2	14.8	14.4

