



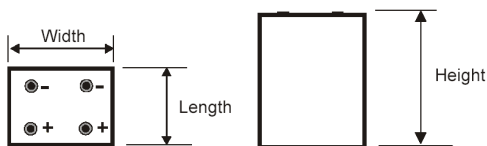
HIGH PERFORMANCE

MGR 2-400G

VALVE REGULATED LEAD ACID

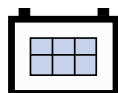
2 VOLT FLAT PASTED PLATE BATTERY
GELLED ELECTROLYTE TECHNOLOGY

Cell Dimensions for Rack Layout



L:210/8.27 W:173/6.82 H:336/13.2 (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	400 Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 455 Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 28 kg (61.7 lbs)
Internal Resistance	Approx. 0.36 mΩ @ 20°C (68°F)
Maximum Charge Current	80 A
Short Circuit Current	2660 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
(ST2) Copper Insert type terminal with 18 mm diameter insert.

Modular Gel Range VRLA

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power your applications

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 2-400G	1.80	638	547	456	351	276	228	1.85	161	130	98.0	76.3	63.3	55.9	45.7	37.7	32.0	20.5	17.5	9.03	4.64
	1.75	750	605	518	372	293	242	1.80	171	138	104	81.0	67.2	59.3	48.5	40.0	34.0	21.8	18.6	9.58	5.00
	1.67	837	701	576	386	300	246	1.75	178	144	108	84.4	70.1	61.9	50.6	42.0	35.4	22.7	19.4	9.99	5.13

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 2-400G	1.80	1149	996	837	650	524	438	1.85	309	251	191	150	125	111	90.8	75.2	64.1	36.0	35.1	
	1.75	1335	1088	937	689	544	464	1.80	326	265	201	158	132	117	95.9	79.4	67.6	38.0	37.1	
	1.67	1439	1227	1031	707	558	470	1.75	335	273	208	163	136	121	99.1	82.1	69.9	39.4	38.4	

