



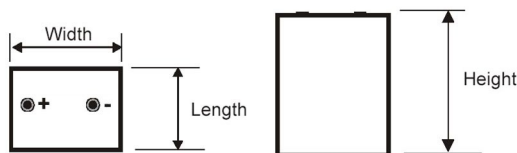
HIGH PERFORMANCE

MGR 2-300G

VALVE REGULATED LEAD ACID

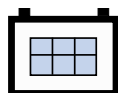
2 VOLT FLAT PASTED PLATE BATTERY
GELLED ELECTROLYTE TECHNOLOGY

Cell Dimensions for Rack Layout



L:171/6.74 W:151/5.95 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	300 Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 340 Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 21 kg (46.2 lbs)
Internal Resistance	Approx. 0.40 mΩ @ 20°C (68°F)
Maximum Charge Current	60 A
Short Circuit Current	1990 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 2-300G	1.80	479	410	342	263	207	171	1.85	121	98.0	73.6	57.3	47.5	42.0	34.3	28.3	24.1	15.3	13.1	6.78	3.48
	1.75	563	454	388	280	220	182	1.80	128	104	78.0	60.8	50.4	44.5	36.4	30.0	25.5	16.4	14.0	7.19	3.69
	1.67	628	526	432	290	225	185	1.75	134	108	81.4	63.4	52.6	46.4	38.0	31.3	26.6	17.0	14.5	7.50	3.85

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 2-300G	1.80	862	747	628	487	393	328	1.85	232	189	143	112	93.7	83.0	68.2	56.4	48.1	27.1	26.4	
	1.75	1002	817	703	517	409	349	1.80	244	199	151	118	99.0	87.5	71.9	59.5	50.7	28.7	28	
	1.67	1080	921	774	531	419	353	1.75	252	205	156	122	102	90.5	74.4	61.6	52.5	29.6	28.9	

