



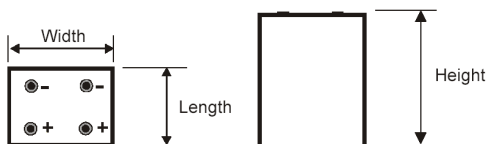
# HIGH PERFORMANCE

## MGR 2-700G

VALVE REGULATED LEAD ACID

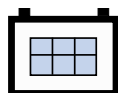
2 VOLT FLAT PASTED PLATE BATTERY  
GELLED ELECTROLYTE TECHNOLOGY

### Cell Dimensions for Rack Layout



L:302/11.9 W:175/6.90 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 SiO<sub>2</sub> 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	700 Ah @ 10hr to 1.80V per cell @ 20°C (68°F) 757 Ah @ 20hr to 1.75V per cell @ 20°C (68°F)
Weight	Approx. 50 kg (110 lbs)
Internal Resistance	Approx. 0.22 mΩ @ 20°C (68°F)
Maximum Charge Current	140 A
Short Circuit Current	4850 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

**EverExceed**<sup>®</sup>  
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 2-700G	1.80	1186	1016	846	652	512	423	1.85	298	242	182	142	118	104	79.5	65.8	55.9	36.0	30.8	16.9	8.61
	1.75	1394	1123	962	692	543	450	1.80	317	257	193	151	125	110	82.7	70.0	59.5	37.2	31.8	17.8	9.13
	1.67	1554	1303	1069	718	558	457	1.75	331	267	202	157	130	115	88.0	73.2	62.2	37.9	32.3	18.6	9.52

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 2-700G	1.80	2133	1849	1553	1206	973	812	1.85	574	467	354	278	231	205	158	132	111	63.3	61.7	
	1.75	2478	2020	1739	1279	1011	862	1.80	605	492	374	293	245	216	163	139	119	65.2	63.6	
	1.67	2671	2278	1913	1313	1036	872	1.75	623	507	386	303	252	224	173	144	123	65.9	64.3	

