

# GM 12-55HR

12V55AH/10HR

## GEM Battery

Powered & Powerful



### ► Technology:

- ✓ Valve Regulated Lead Acid Battery / VRLA
- ✓ Sealed Maintenance Free / SMF
- ✓ AGM technology
- ✓ Complied with IEC60896-21/22 or IEC61056-1/2

### ► Main Features:

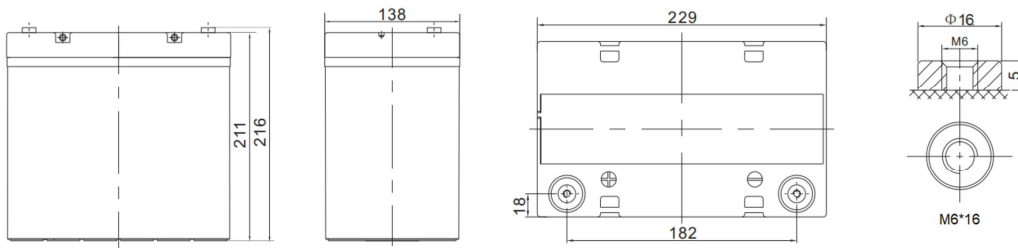
- ◆ Innovated technology of battery plate formula designed for Deep Discharge.
- ◆ Outstanding re-charge acceptability after deep discharged.
- ◆ Extreme low self-discharge, low internal resistance and low internal pressure.
- ◆ Long Life - Assembly using thicker plate with special chemical formation.

### ► Main Application:

- Sizable and critical UPS systems
- Solar PV & Wind power
- Off-grid power system / Power plant
- Medical power assurance
- Telecom & Towers power assurance
- High performance UPS system
- Deep cycle discharge
- Industrial battery & power reserve
- All general purpose

**GEM Battery | GM Series** batteries are designed at a larger size and higher capacity carrying more energy power to support more-power-requiring applications.

- ① Adopted with latest and most advanced AGM technology for assembly.
- ② Thick and strengthened plates with anti-corruption designed for long life time.
- ③ Using high purity metal lead/Pb during the production to assure low self-discharge and high power efficiency.
- ④ Flame Retardant UL94 V-0 available on request.



Model	GM 12-55HR		IR	Dimensions (mm ±2)				Weight	Terminal	
Voltage (V)	Nominal Capacity (25°C)		mΩ (25°C)	Length	Width	Height	Total Height	Kgs ±5%	L4	T614
12	55Ah	10Hr (10.8V)	6	229	138	211	216	17.5		M6*14

Capacity	20Hr (10.8V)	5Hr (10.5V)	3Hr (9.60V)	1Hr (9.60V)	Designed Life (25°C)	Separator	Electrolyte	Case	Sealing
Range (25°C)	57.75Ah	47.58Ah	42.35Ah	33.55Ah	10 Years (Float charging)	AGM	Sulfuric Acid	ABS plastic	Epoxy Glue

Short circuit current: 1150A

Max. Current (A)		Charge Voltage @25°C		Self-discharge		Capacity Effected by Temp. @20Hr			
Charge	Discharge	Float use	13.5-13.8V (-18mV/°C)	per month @25°C	40°C	25°C	0°C	-15°C	
13.75A	550A (5s)	Cycle use	14.4-14.7V (-30mV/°C)	3%	102%	100%	85%	65%	

### ● Constant-Current (A) Discharge / CCD @25°C

End V./VPC	5min	10min	15min	30min	1Hr	2Hr	3Hr	5Hr	10Hr	20Hr
10.02 / 1.67	238.98	135.20	106.26	66.13	36.15	20.90	16.05	10.80	5.77	3.00
10.2 / 1.70	217.08	124.62	97.94	62.63	35.77	20.68	15.88	10.68	5.71	2.97
10.5 / 1.75	199.15	117.56	92.40	60.23	35.15	20.32	15.60	10.50	5.61	2.92
10.8 / 1.80	195.49	115.40	90.70	59.12	34.51	19.95	15.32	10.31	5.50	2.86
11.1 / 1.85	191.82	113.24	89.00	58.01	33.86	19.57	15.03	10.11	5.40	2.81

### ● Constant-Power (Watt) Discharge / CPD @25°C

End V./VPC	5min	10min	15min	30min	1Hr	2Hr	3Hr	5Hr	10Hr	20Hr
10.02 / 1.67	466.02	263.64	207.21	128.96	70.50	40.75	31.30	21.06	11.25	5.85
10.2 / 1.70	423.30	243.00	190.99	122.14	69.75	40.32	30.96	20.84	11.13	5.79
10.5 / 1.75	388.35	229.25	180.18	117.45	68.55	39.62	30.43	20.47	10.94	5.69
10.8 / 1.80	381.20	225.03	176.86	115.29	67.29	38.90	29.87	20.10	10.73	5.58
11.1 / 1.85	374.06	220.81	173.55	113.13	66.02	38.17	29.31	19.72	10.54	5.48



GRAND ENERGY MANUFACTURING CO LIMITED

ISO9001 / ISO14001 / ISO45001 / UL / CE / RoHS  
www.gembattery.com

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- To follow the latest information, please contact our sales representative.