

# GS 12-5HR

12V5.0AH/20HR

GEM Battery

Powered and 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:**

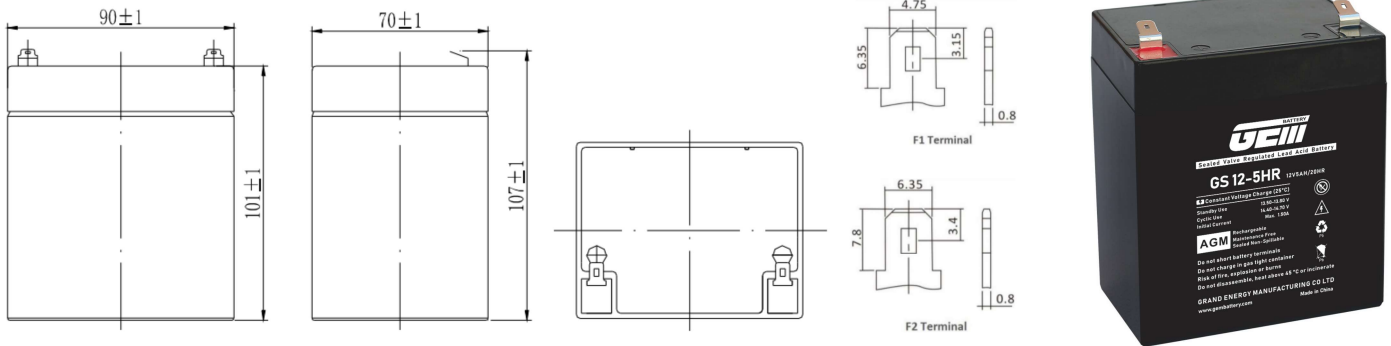
- ◆ Innovated technology of battery plate formula designed for Deep Discharge.
- ◆ Outstanding re-charge acceptability after deep discharged.
- ◆ Extreme low self-discharge, low internal resistance and low internal pressure.
- ◆ Long Life - Assembly using thicker plate with special chemical formation.

► **Main Application:**

- Commercial UPS and critical power backup
- Telecom & Towers power assurance
- Medical power assurance
- Fire & Emergency & Lighting system
- Security & Alarm system
- Solar power products
- Deep cycle discharge
- Industrial battery & power reserve
- All general purpose

**GEM Battery | GS Series** batteries have been developed and upgraded over decades manufacturing to meet various general purpose for commercial applications.

- ① Adopted with latest and most advanced AGM technology for assembly.
- ② Compact size and sealed maintenance-free design, support to flexible installation and portable handling.
- ③ Available for many civil applications, lamp and lantern, electric toys, power tools, civil or commercial UPS systems, emergency lights, security facilities, etc.
- ④ High capacity ideally support to commercial UPS systems and critical power system.



Model	GS 12-5HR		IR (Max.)	Dimensions (mm ±2)				Weight	Terminal	
Voltage (V)	Nominal Capacity (25°C)		mΩ (25°C)	Length	Width	Height	Total Height	Kgs ±5%	F1	F2
12	5Ah	20Hr (10.8V)	21	90	70	101	105	1.80	Faston 187	Faston 254

Capacity Range (25°C)	10Hr (10.5V)	5Hr (10.5V)	3Hr (9.60V)	1Hr (9.60V)	Designed Life (25°C)	Separator	Electrolyte	Case	Sealing
	4.65Ah	4.28Ah	3.75Ah	3.1Ah	5 Years (Float charging)	AGM	Sulfuric Acid	ABS plastic	Epoxy Glue

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	
1.5A	50A (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	60min/1h	2h	3h	5h	10h	20h
9.60 / 1.60	22.36	14.37	11.84	7.17	4.11	2.20	1.82	1.20	0.61	0.32
9.90 / 1.65	21.95	14.11	11.62	6.79	3.89	2.09	1.72	1.14	0.58	0.30
10.2 / 1.70	21.13	13.58	11.19	6.53	3.74	2.01	1.66	1.10	0.56	0.29
10.5 / 1.75	20.52	13.19	10.86	6.34	3.63	1.95	1.61	1.06	0.54	0.28
10.8 / 1.80	20.14	12.95	10.66	6.22	3.57	1.92	1.58	1.04	0.53	0.28

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

End V./VPC	5min	10min	15min	30min	60min/1h	2h	3h	5h	10h	20h
9.60 / 1.60	43.61	28.03	23.08	13.97	8.01	4.30	3.55	2.34	1.19	0.62
9.90 / 1.65	42.81	27.52	22.66	13.23	7.58	4.07	3.36	2.22	1.13	0.58
10.2 / 1.70	41.20	26.49	21.81	12.74	7.30	3.92	3.23	2.14	1.09	0.56
10.5 / 1.75	40.00	25.72	21.18	12.37	7.09	3.80	3.14	2.07	1.06	0.55
10.8 / 1.80	39.27	25.24	20.79	12.14	6.96	3.73	3.08	2.04	1.04	0.54



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.