

# GS 12-12

12V12AH/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:

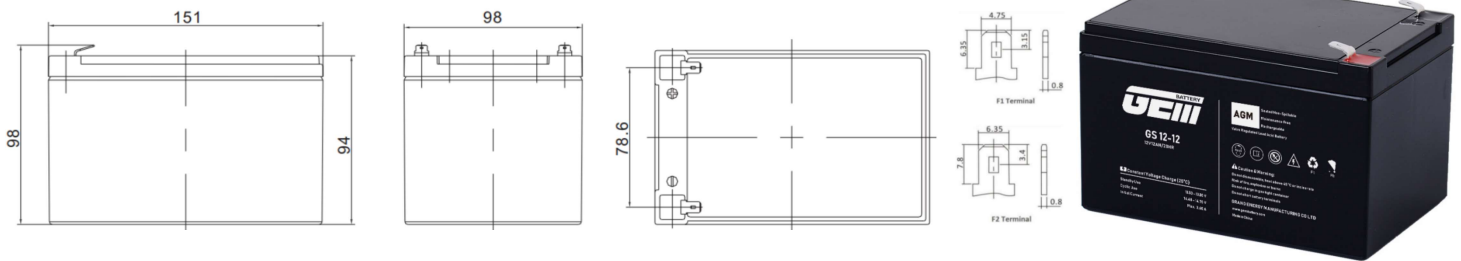
- ◆ Innovated technology of battery plate formula designed for Deep Discharge.
- ◆ Outstanding re-charge acceptability after deep discharged.
- ◆ Extreme low self-discharge, low internal resistance and low internal pressure.
- ◆ Long Life - Assembly using thicker plate with special chemical formation.

### ► 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 12-12		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	12Ah	20Hr (10.8V)	18	151	98	94	98	3.37	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
	11.16Ah	10.26Ah	9.12Ah	7.62Ah	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	
3.6A	144A (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
10.8 / 1.80	36.08	24.72	17.30	10.98	6.01	3.75	2.92	1.94	1.07	0.59
10.5 / 1.75	36.76	25.19	17.62	11.19	6.12	3.82	2.97	1.98	1.09	0.60
10.2 / 1.70	37.86	25.94	18.15	11.52	6.30	3.93	3.06	2.04	1.12	0.61
10.02 / 1.67	38.97	26.7	18.68	11.86	6.49	4.05	3.15	2.10	1.15	0.62
9.60 / 1.60	40.07	27.45	19.21	12.20	6.67	4.16	3.24	2.16	1.19	0.64

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

End V./VPC	5min	10min	15min	30min	60min/1h	2h	3h	5h	10h	20h
10.8 / 1.80	70.37	48.21	33.74	21.42	11.71	7.31	5.68	3.79	2.08	1.15
10.5 / 1.75	71.68	49.12	34.37	21.82	11.93	7.45	5.79	3.86	2.12	1.17
10.2 / 1.70	73.83	50.59	35.40	22.47	12.29	7.67	5.96	3.98	2.19	1.19
10.02 / 1.67	75.99	52.06	36.43	23.13	12.65	7.89	6.14	4.09	2.25	1.22
9.60 / 1.60	78.14	53.54	37.46	23.78	13.01	8.12	6.31	4.21	2.31	1.25



GRAND ENERGY MANUFACTURING CO LIMITED

ISO9001 / ISO14001 / ISO45001 / UL / CE / RoHS

www.gembattery.com

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► The trade mark GEM BATTERY is registering in China, if any trade mark infringement, please contact us.

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