

GS 12-7.5

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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:**

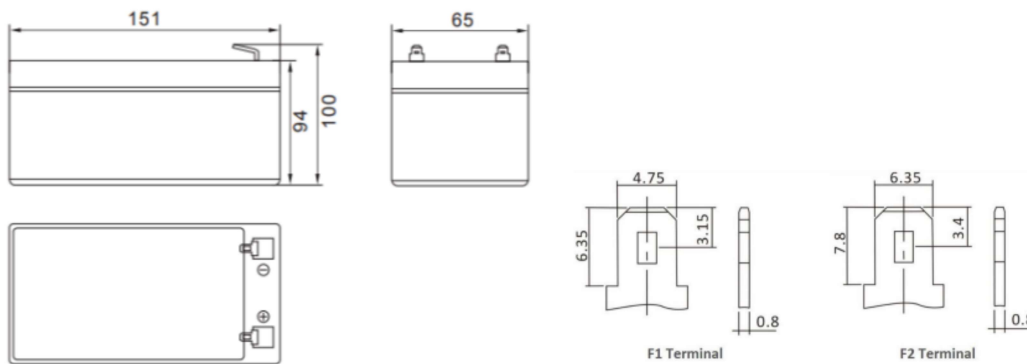
- ◆ Innovated technology of battery plate formula designed for Deep Discharge.
- ◆ Outstanding re-charge acceptability after deep discharged.
- ◆ Extreme low self-discharge, low internal resistance and low internal pressure.
- ◆ Long Life - Assembly using thicker plate with special chemical formation.

▷ **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 12-7.5		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	7.5Ah	20Hr (10.8V)	20	151	65	94	98	2.20	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
	6.98Ah	6.41Ah	5.7Ah	4.76Ah	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	
2.25A	90A (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	35.86	24.61	18.57	10.13	4.76	2.66	1.91	1.30	0.71	0.40
9.90 / 1.65	33.06	22.41	17.59	9.76	4.70	2.65	1.90	1.29	0.71	0.39
10.2 / 1.70	31.65	21.87	16.93	9.65	4.59	2.63	1.89	1.28	0.70	0.39
10.5 / 1.75	29.32	20.49	16.44	9.23	4.52	2.59	1.88	1.28	0.70	0.38
10.8 / 1.80	16.90	19.68	16.14	8.91	4.49	2.52	1.82	1.24	0.68	0.38

● **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	64.99	45.18	33.50	19.20	11.30	5.86	4.83	3.19	1.62	0.84
9.90 / 1.65	60.01	45.16	32.35	18.70	10.95	5.54	4.58	3.02	1.54	0.80
10.2 / 1.70	58.00	41.20	31.80	18.25	10.68	5.34	4.41	2.92	1.48	0.76
10.5 / 1.75	54.83	39.36	30.02	17.68	10.30	5.18	4.28	2.83	1.44	0.74
10.8 / 1.80	51.20	37.50	29.00	17.15	10.00	5.09	4.20	2.78	1.41	0.73



GRAND ENERGY MANUFACTURING CO LIMITED

ISO9001 / ISO14001 / ISO45001 / UL / CE / RoHS

www.gembattery.com

▷ Subject to revisions, the above data might be changed without prior notice, GEM BATTERY reserves the right to explain and update related information.

▷ 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.