

# GS 12-18R

12V18AH/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:**

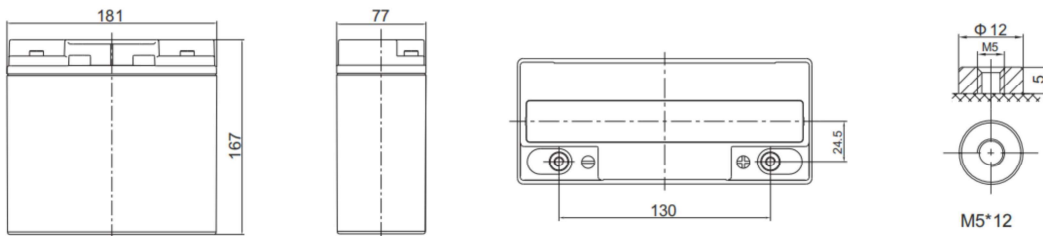
- ◆ Innovated technology of battery plate formula designed for Deep Discharge.
- ◆ Outstanding re-charge acceptability after deep discharged.
- ◆ Extreme low self-discharge, low internal resistance and low internal pressure.
- ◆ Long Life - Assembly using thicker plate with special chemical formation.

► **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 12-18R		IR (Max.)	Dimensions (mm ±2)			Weight	Terminal	
Voltage (V)	Nominal Capacity (25°C)		mΩ (25°C)	Length	Width	Height	Total Height		R1
12	18Ah	20Hr (10.8V)	16	181	77	167	167	5.50	M5

Capacity Range (25°C)	10Hr (10.5V)	5Hr (10.5V)	3Hr (9.60V)	1Hr (9.60V)	Designed Life (25°C)	Separator	Electrolyte	Case	Sealing
	16.74Ah	15.39Ah	13.68Ah	11.43Ah	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
5.4A	216A (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	67.40	46.78	38.43	23.03	13.20	7.08	5.85	3.86	1.97	1.02
9.90 / 1.65	63.82	44.30	36.39	21.81	12.50	6.71	5.54	3.66	1.86	0.96
10.2 / 1.70	61.43	42.64	35.03	20.99	12.03	6.46	5.33	3.52	1.79	0.93
10.5 / 1.75	59.64	41.40	34.01	20.38	11.68	6.27	5.17	3.42	1.74	0.90
10.8 / 1.80	58.54	40.64	33.38	20.01	11.47	6.15	5.08	3.36	1.71	0.88

● **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	131.40	91.22	74.94	44.91	25.74	13.81	11.40	7.53	3.84	1.98
9.90 / 1.65	124.40	86.38	70.96	42.53	24.37	13.08	10.80	7.13	3.63	1.88
10.2 / 1.70	119.80	83.15	68.31	40.94	23.46	12.59	10.39	6.87	3.50	1.81
10.5 / 1.75	116.30	80.73	66.32	39.75	22.78	12.22	10.09	6.67	3.39	1.76
10.8 / 1.80	114.20	79.24	65.10	39.01	22.36	12.00	9.90	6.55	3.33	1.72



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.