



GENERAL (GP) SERIES VRLA BATTERIES

GP7-12

12V7AH

OVERVIEW

Our Joule Energy Solutions VRLA 12V battery showcases the advanced AGM (Absorbent Glass Mat) technology, coupled with high-performance plates and electrolytes.

These components work in synergy to deliver enhanced power output, making them the ideal choice for conventional power backup systems.

The GP Series Batteries, designed for versatile applications, offer an impressive 5-year floating design life at 25°C.

CONSTRUCTION

- Positive: Lead dioxide
- Negative: Lead
- Electrolyte: Sulfuric acid
- Separator: Fiber glass
- Safety Valve: EPDR
- Terminal: Copper
- Container: ABS(UL94-HB)/Flame Retardant ABS (UL94-V0)

Compliant with IEC, BS, JIS, and Eurobat standards, as well as UL (MH62092) and CE certifications.

FEATURES & BENEFITS

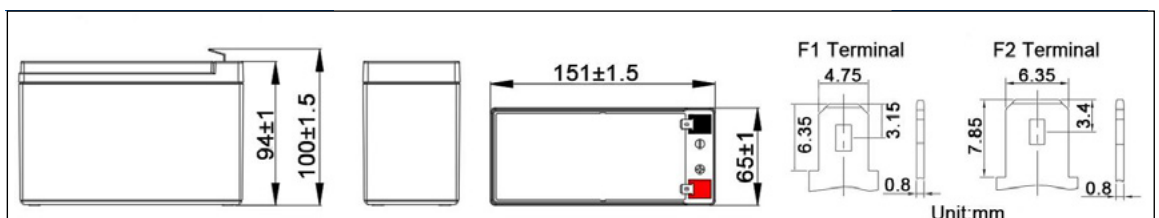
- Heavy Duty Grid
- Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design

APPLICATION

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric toy car and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Medical equipment
- Fire and Security System
- Gate Motors
- Garage Door Motors

OUTER DIMENSION (MM)

TERMINAL TYPE



LEAD-ACID BATTERIES

GENERAL SERIES BATTERY GP7-12

SPECIFICATION

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (20 Hour rate)		7Ah	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.70 inches)	100mm (3.94 inches)
Approx Weight	1.99kg(4.38 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 26.0mΩ			
Maximum Charge Current	2.10A			
Max. discharge current	105A (5Sec.)			
Short-circuit current	255A			

TEMPERATURES

Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C(77°F)	-15°C~ 50°C(5°F~122°F)	-15°C~ 40°C(5°F~104°F)	-15°C~ 40°C(5°F~104°F)
Capacity @ 25°C (77°F)	20 hour rate (0.36A,10.5V)	10 hour rate (0.67A,10.5V)	5 hour rate (1.19A,10.5V)	1 hour rate (4.46A,9.6V)
	7.20Ah	6.70Ah	5.95Ah	4.46Ah
Capacity affected by Temp.(20HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method	Float Charging Voltage		Cycle Use Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25°C(77°F)		14.4~ 15.0 VDC/Unit at 25°C(77°F)	
Warranty	1 year			

CONSTANT CURRENT(AMP) AND CONSTANT POWER(WATT) DISCHARGE TABLE AT 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	20.1	14.3	10.8	8.75	6.61	3.98	2.41	1.76	1.150	0.750	0.639	0.357
	W	37.7	27.0	20.6	16.73	12.80	7.86	4.79	3.55	2.310	1.510	1.290	0.718
1.80V/cell	A	21.7	15.2	11.4	9.23	6.79	4.04	2.45	1.79	1.170	0.770	0.651	0.361
	W	39.9	28.0	21.5	17.23	13.45	8.17	4.85	3.61	2.340	1.530	1.305	0.719
1.75V/cell	A	22.9	15.9	11.8	9.51	7.01	4.16	2.50	1.82	1.190	0.780	0.670	0.363
	W	42.3	28.9	22.2	17.75	13.89	8.33	4.93	3.66	2.370	1.550	1.323	0.722
1.70V/cell	A	24.0	16.5	12.2	9.87	7.18	4.25	2.55	1.85	1.210	0.790	0.673	0.368
	W	44.1	29.7	22.9	18.29	14.25	8.44	5.02	3.70	2.400	1.570	1.328	0.732
1.67V/cell	A	24.9	16.9	12.5	10.11	7.31	4.31	2.59	1.87	1.220	0.800	0.676	0.372
	W	45.4	30.6	23.4	18.67	14.53	8.52	5.09	3.73	2.420	1.590	1.336	0.740
1.60V/cell	A	26.9	17.9	13.1	10.49	7.67	4.46	2.65	1.91	1.240	0.810	0.678	0.379
	W	47.6	32.2	24.1	19.32	14.65	8.63	5.17	3.77	2.450	1.610	1.345	0.751

