

AGM BATTERY

AGM Gel Series

JCM-H12-120GX

General Features

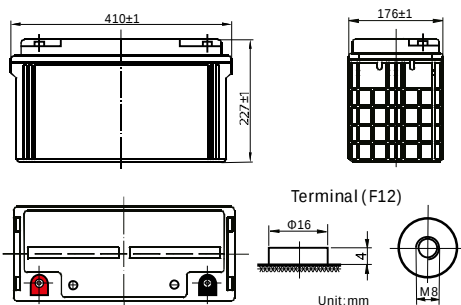
- Micromillimeter SiO_2 and H_2SO_4 technology for Efficient gas recombination of up to 99% and Freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- A recognized component of CE and UL
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge
- Design Life 10 years



HERSIC AGM GEL Series batteries are manufactured with AGM separator and colloidal silica. With semi-gelled electrolyte, stratification is improved or avoided. So Gel battery are feature with low self-discharge, good recovery from deep discharge and longer service life than conventional VRLA under floating applications, like Communication equipments, UPS, Telecom systems, other standby power supplies.

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon



Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	410mm	176mm	227mm	227mm	34Kg
English Units	16.1inch	6.93inch	8.94inch	8.94inch	74.8lbs

Performance Characteristics

- **Nominal Voltage** 12V
- **Number of Cell** 6
- **Nominal Capacity (77°F /25°C)**
 - 100 Hour rate (1.32A, 11.1V) 132Ah
 - 20 Hour rate (6.0A, 10.5V) 120Ah
 - 10 Hour rate (11A, 10.5V) 110Ah
 - 1 Hour rate (67A, 9.6V) 67Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 8mΩ
- **Operating Temperature Range**
 - Discharge -20 ~ 65°C
 - Charge -10 ~ 65°C
 - Store -20 ~ 65°C
- **Self-Discharge 68°F (20°C)**
 - Capacity declined per month average 3%
- **Max. discharge current 77°F /25°C** 1000A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 14.28 ~ 14.52V
 - Max. Current 30A
 - Standby use 13.38 ~ 13.68V

Constant Current Discharge (Amperes at 77 °F/25 °C)

V/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	330	246	202	118	67.0	29.5	20.0	11.3	6.12
1.65	310	238	196	115	66.8	29.3	19.8	11.2	6.10
1.70	290	226	188	112	66.4	29.0	19.7	11.1	6.05
1.75	268	212	180	108	66.1	28.7	19.6	11.0	6.00
1.80	245	200	171	105	65.2	28.3	19.3	10.8	5.90

Constant Power Discharge (Watts at 77 °F/25 °C)

V/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60	550	443	355	219	155	143	80.2	56.7	39.9
1.65	528	421	343	212	152	141	78.3	56.0	39.5
1.70	501	399	332	205	149	139	77.3	55.3	39.2
1.75	473	377	320	199	145	136	75.3	54.8	38.9
1.80	443	353	309	192	142	131	73.3	53.8	38.6

(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)

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