

6FM100D-X



SMART Battery Deep Cycle 100A

Rating: Not Rated Yet

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Description

SMART Battery : 6FM100D-X

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

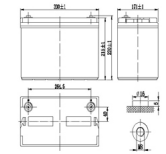
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) 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 A57
- UL-recognized component.
- 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.

Dimensions and Weight

Length(mm / inch) 330 / 12.99
Width(mm / inch) 171 / 6.73
Height(mm / inch) 215 / 8.46
Total Height(mm / inch) 220 / 8.66
Approx. Weight(Kg / lbs) 32 / 70.5



Performance Characteristics

Nominal Voltage 12V
Number of cell 6
Design Life 10 years
Nominal Capacity 77°F(25°C)
10 hour rate (0.55A, 10.8V) 95.5Ah
5 hour rate (17.4A, 10.5V) 87.5Ah
1 hour rate (85.2A, 9.6V) 65.2Ah
Internal Resistance 5mOhms
Fully Charged battery 77°F(25°C)
Self-Discharge
3% of capacity declined per month at 20°C(average)
Operating Temperature Range
Discharge -20~60°C
Charge -10~60°C
Storage -20~60°C
Max. Discharge Current 77°F(25°C) 900A(5s)
Short Circuit Current 2100A
Charge Methods: Constant Voltage Charge 77°F(25°C)
Cycle use 14.4-14.7V
Maximum charging current 30A
Temperature compensation -30mV/°C
Standby use 13.6-13.8V
Temperature compensation -20mV/°C

Discharge Constant Current (Ampere at 77°F25°C)

Std. Rate 10h/20h	10h	20h	10h	20h	4h	1h	1h	1h
0.05	238	220	180	157	76.9	45.2	27.4	16.3
0.01	235	217	177	155	75.1	44.4	26.4	16.2
0.005	231	213	173	151	73.3	43.6	25.6	15.9
0.001	227	209	169	147	71.5	42.8	24.8	15.6

Discharge Constant Power (Watts at 77°F25°C)

Std. Rate 10h/20h	10h	20h	10h	20h	4h	1h	1h	1h
0.05	120	976	251	196	157	102	63.7	39.3
0.01	491	348	369	261	167	103	63.7	39.3
0.005	454	326	329	236	156	102	63.7	39.3
0.001	417	299	289	219	145	101	63.7	39.3
0.0001	380	271	261	197	134	100	63.7	39.3

