6FM65D-X

SMART Battery Deep Cycle 65A

Rating: Not Rated Yet
Ask a question about this product

Description

SMART Battery : 6FM65D-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

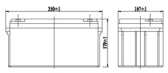
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

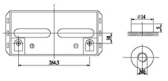
Performance Characteristics

Nominal Voltage 12V
Number of cell 6
Design Life ..... 10 years
Nominal Capacity 77°F(25°C)
10 hour rate (6.50A, 10.8V) 65.0Ah
5 hour rate (11.2A, 10.5V) 56.0Ah
1 hour rate (43.5A, 9.6V) 43.5Ah
Internal Resistance
Fully Charged battery 77°F(25°C) 6mOhms
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) ..... 650A(5s)
Short Circuit Current 1700A
Charge Methods: Constant Voltage Charge 77°F(25°C)
Cycle use 14.4-14.7V
Maximum charging current 19.5A
Temperature compensation ..... -30mV/°C
Standby use 13.6-13.8V
Temperature compensation ..... -20mV/°C

Dimensions and Weight

Length(mm / inch) ..... 350 / 13.78
Width(mm / inch) ..... 167 / 6.57
Height(mm / inch) ..... 179 / 7.05
Total Height(mm / inch) ..... 179 / 7.05
Approx. Weight(Kg / lbs) ..... 22.2 / 48.9





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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	5h	10h
1.67V	205	156	121	68.8	52.0	43.5	17.5	12.0	7.01
1.65V	193	145	113	66.2	51.6	41.3	16.9	11.6	6.90
1.70V	182	136	111	64.7	49.1	40.3	16.7	11.4	6.76
1.75V	170	127	108	64.4	48.8	40.3	16.5	11.2	6.65
1.80V	157	118	97.1	60.3	46.4	37.7	16.1	11.0	6.50

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.67V	363	271	216	125	96.1	79.6	45.5	34.2	22.7
1.65V	342	257	200	124	94.6	77.6	44.5	33.5	22.5
1.70V	321	242	197	119	92.6	76.3	44.0	33.4	22.3
1.75V	300	226	187	113	90.6	74.3	43.6	32.1	21.9
1.80V	280	212	178	111	89.4	73.9	42.0	31.4	21.6