



6FM75T-X 12V 88Ah(100hr)

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

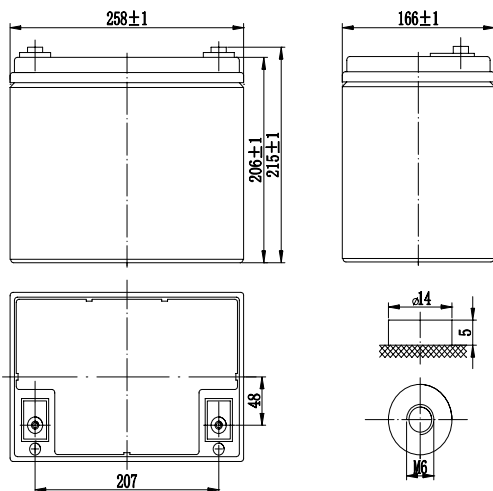
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Pb	Fiberglass	Sulfuric acid

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.

Dimensions and Weight

Length(mm / inch)	.....258 / 10.16
Width(mm / inch)	.....166 / 6.54
Height(mm / inch)	.....206 / 8.11
Total Height(mm / inch)	.....215 / 8.46
Approx. Weight(Kg / lbs)	.....24 / 52.9



Performance Characteristics

Nominal Voltage	.....12V
Number of cell	.....6
Design Life	.....10 years
Nominal Capacity 77°F(25°C)	
100 hour rate (880mA, 9.6V)	.....88.0Ah
10 hour rate (7.5A, 10.8V)	.....75.0Ah
5 hour rate (13.1A, 10.5V)	.....65.5Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	.....5.7mOhms
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)	.....700A(5s)
Short Circuit Current	.....1800A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	.....14.4-14.7V
Maximum charging current	.....22.5A
Temperature compensation	.....-30mV/°C
Standby use	.....13.6-13.8V
Temperature compensation	.....-20mV/°C

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

End Point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h	100h
1.60V	238	178	138	82.5	47.5	20.7	13.9	7.70	3.94	0.88
1.65V	224	169	133	80.0	46.9	20.3	13.7	7.65	3.90	0.87
1.70V	211	159	127	77.3	46.1	19.9	13.5	7.60	3.85	0.86
1.75V	196	150	121	74.7	45.3	19.5	13.3	7.55	3.80	0.85
1.80V	182	141	114	72.2	44.5	19.0	13.1	7.50	3.73	0.84

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

End Point Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	100h
1.60V	425	317	264	150	117.4	96.0	54.1	39.7	27.2	1.76
1.65V	404	306	250	148	114.4	94.1	53.2	36.9	26.7	1.75
1.70V	383	294	237	146	113.4	92.4	52.2	36.2	26.2	1.74
1.75V	361	281	224	144	110.3	90.6	51.2	35.5	25.6	1.73
1.80V	341	270	211	141	107.3	88.9	50.3	34.8	25.1	1.72

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

