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6FM45GD-X 12V 45Ah(20hr)

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 oneway 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

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

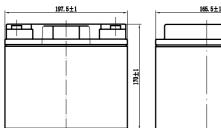
General Features

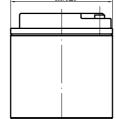
- Gel and Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- · Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- ·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

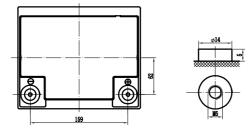
Dimensions and Weight

Length(mm / inch)	
	197.5 / 7.78
Width(mm / inch)	165.5 / 6.52
Height(mm / inch)	170 / 6.69
Total Height(mm / inch)	170 / 6.69
Approx. Weight(Kg / lbs)	14.6 / 32.2

* Weight deviation: ± 3%







Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
20 hour rate(2.25A,10.8V)	45Ah
10 hour rate (4.18A, 10.8V)	41.8Ah
5 hour rate (7.34A, 10.5V)	36.7Ah
1 hour rate (27.6A, 9.6V)	27.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	\leqslant 8.0mOhms
Self-Discharge	
3% of capacity declined per month at 20 ^c	PC(average)
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	450A(5s)
Short Circuit Current	1050A
Charge Methods: Constant Voltage Charge	77ºF(25ºC)
Cycle use	2.40-2.45VPC
Maximum charging current	13.5A
Temperature compensation	-30mV/ºC
Temperature compensation	-20mV/ºC

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

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	96.0	75.5	44.6	34.3	27.6	11.7	7.76	4.26	2.37
1.65V	91.2	72.1	44.4	33.7	27.2	11.5	7.62	4.24	2.33
1.70V	86.4	70.8	42.8	31.3	26.8	11.2	7.48	4.22	2.30
1.75V	81.6	66.9	38.9	30.6	26.5	11.0	7.34	4.20	2.27
1.80V	76.8	64.0	38.0	29.9	26.1	10.8	7.26	4.18	2.25

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

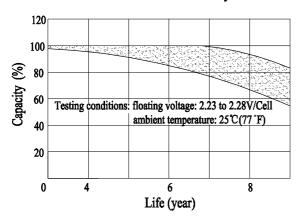
End Point Volts/Cell	10min	15min	30min	45min	lh	2h	3h	5h
1.60V	180	143	96.1	73.1	58.3	32.8	24.3	15.7
1.65V	167	136	84.7	66.3	54.0	30.4	22.6	14.7
1.70V	159	131	81.7	64.0	53.2	30.0	22.3	14.6
1.75V	150	123	79.8	62.8	52.3	29.6	22.1	14.4
1.80V	147	122	78.0	61.7	51.5	29.2	21.8	14.1

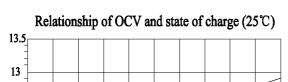
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

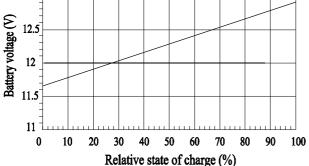
All data shall be changed without notice, Luxury reserves the right to explain and update the information contained hereinto.

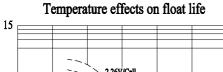


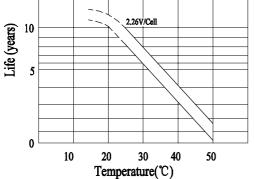
Life characteristics of standby use

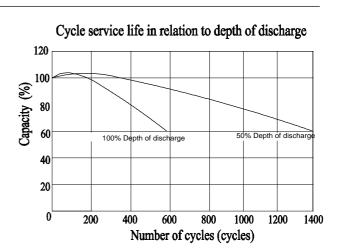




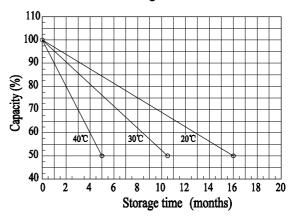


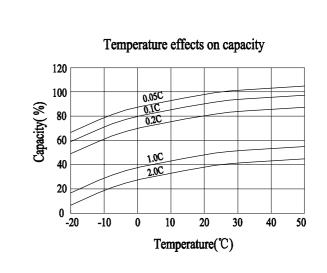






Self-discharge characteristic







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