

6FM33GD-X 12V 33Ah(20hr)

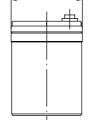
The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive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

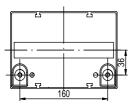
Battery Construction

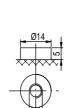
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Pb	Fiberglass	Sulfuric acid

General Features		Performance Characteristics					
Gel and Absorbent Glas		Nominal Voltage	12V				
technology for efficient recombination of up to 9		Number of cell	6				
freedom from electrolyte		Design Life	10 years				
or water adding.		Nominal Capacity 77°F(25°C)					
 Not restricted for air tran with IATA/ICAO Special 		20 hour rate (1.65A, 10.8V)	33.0Ah				
with IATA/ICAO SpecialUL-recognized component		10 hour rate (3.14A, 10.8V)	31.4Ah				
 Can be mounted in any 		5 hour rate (5.55A, 10.5V) 1 hour rate (22.0A, 9.6V)	27.75Ah 22.0Ah				
 Computer designed lead 		Internal Resistance	22.0A11				
grid for high power densLong service life, float o		Fully Charged battery 77°F(25°C)	≪10mOhms				
 Long service life, hoat of applications. 		Self-Discharge					
 Maintenance-free opera 	tion.	3% of capacity declined per month at 20°C(average)					
 Low self discharge. 		Operating Temperature Range					
		Discharge	-20~60°C				
Dimensions and Weight Length(mm / inch) 19		Charge	-10~60°C				
	195 / 7.68	Storage	-20~60°C				
Width(mm / inch)	130 / 5.12	Max. Discharge Current 77°F(25°C)	330A(5s)				
Height(mm / inch) 15	155/ 6.10	Short Circuit Current	850A				
	168 / 6.61	Charge Methods: Constant Voltage Charge	rge 77ºF(25ºC)				
Approx. Weight(Kg / lbs)	11.0 / 24.3	Cycle use	2.40-2.45VPC				
	11.07 24.0	Maximum charging current	9.9A				
 Weight deviation: ± 3% 		Temperature compensation	-30mV/ºC				

195 + 1130 + 1168±1







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

Temperature compensation

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	77.0	59.7	36.1	26.4	22.0	8.99	6.27	3.28	1.74
1.65V	74.2	57.6	35.4	26.4	21.6	8.88	6.22	3.25	1.72
1.70V	70.1	52.9	32.4	24.7	20.9	8.37	6.12	3.22	1.70
1.75V	66.2	50.4	32.0	24.0	20.0	8.17	5.55	3.18	1.68
1.80V	57.6	48.0	31.1	23.3	19.5	8.10	5.47	3.14	1.65

-20mV/ºC

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

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	144	114	70.6	52.7	40.3	23.0	17.2	12.1
1.65V	139	107	67.6	52.1	39.9	22.8	17.1	11.8
1.70V	131	104	62.9	50.2	39.3	22.3	16.6	11.4
1.75V	127	99.9	61.1	48.1	38.5	21.5	15.8	11.2
1.80V	111	95.0	59.5	47.8	37.7	20.7	15.1	11.0

(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.



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Cycle service life in relation to depth of discharge

100% Depth of discharge

400

120

100

80

60

40 20

0

200

Capacity (%)

50% Depth of dischar

1200

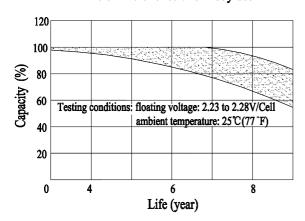
1400

1000

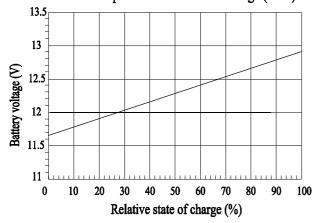
800

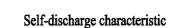
Number of cycles (cycles)

Life characteristics of standby use

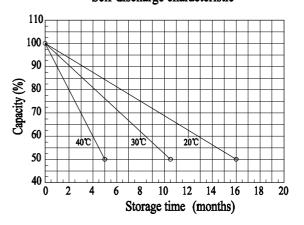


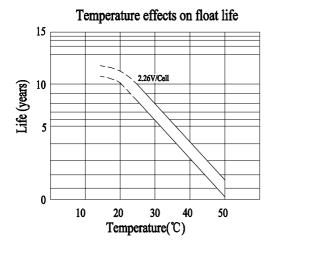
Relationship of OCV and state of charge (25°C)



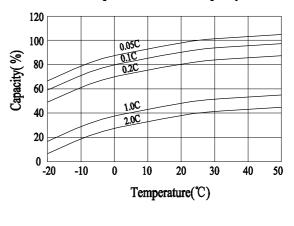


600





Temperature effects on capacity





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