

6FM200 12V 200Ah (20hr) Sealed Lead Acid (SLA) Battery

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

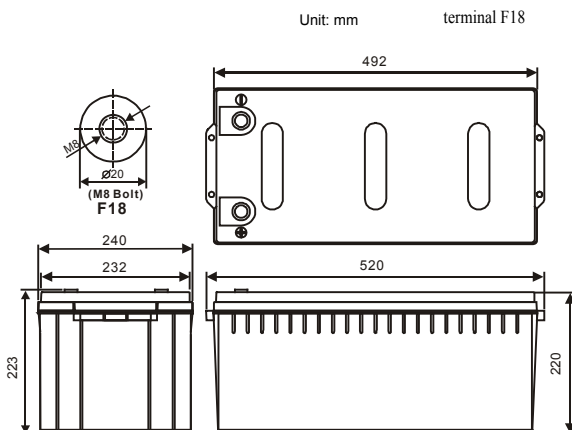
Component	Positive plate	Negative plate	Container&Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS UL94 HB	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Positive and negative plates in lead-calcium-tin alloy
- Stable quality & high reliability
- Sealed construction
- Maintenance-free operation
- Low pressure venting system
- Low self discharge
- High rate discharge
- Valve Regulated Lead Acid (VRLA) battery
- V0 Class Flame-Retardant ABS (UL94V-0) container and cover is optional
- Six months shelf life at 25°C
- Design life 10 years depend on temperature, float charging*

Dimensions and Weight

Length (mm / inch)	492 / 19.3
Length with handle (mm / inch)	520 / 20.47
Width (mm / inch)	232 / 9.13
Width with wing (mm / inch)	240 / 9.44
Height (mm / inch)	220 / 8.66
Height with terminal	223 / 8.78
Approx. Weight (kg / lbs)	32.8 / 72.3



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life at 25°C	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (20A, 10.8V)	200Ah
5 hour rate (34A, 10.2V)	170Ah
1 hour rate (120A, 9.6V)	120Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	3mOhms
Self-Discharge	
3% of capacity declined per month at 25°C (average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	1,600A(5s)
Short Circuit Current	3,300A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.8V
Maximum charging current	60A
Temperature compensation	-30mV/°C
Standby use	13.5-13.8V
Temperature compensation	-20mV/°C

Discharge Rates in Watts to Various End Voltage at 25°C(77°F)

End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
10 min	630	700	740	780	810	835
15 min	585	622	660	685	715	720
30 min	366	389	410	429	448	464
60 min	220	232	242	251	258	264
120 min	115	125	132	138	143	147
180 min	92.0	98.5	104	108	111	112
300 min	70.5	74.3	76.3	77.5	78.7	79.5
600 min	37.7	39.5	40.7	41.3	42.0	42.5
1200 min	20.3	21.3	21.8	22.2	22.5	22.7

Discharge Rates in Amperes to Various End Voltage at 25°C(77°F)

End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
10 min	339	387	422	445	462	476
15 min	292	334	361	374	391	393
30 min	210	225	238	249	260	269
60 min	128	134	143	150	157	162
120 min	66.7	72.0	75.9	79.1	81.6	83.5
180 min	48.7	52.3	54.7	57.0	58.7	60.4
300 min	31.7	34.1	35.9	37.1	38.2	39.2
600 min	19.8	20.2	20.4	20.6	20.8	20.9
1200 min	10.2	10.5	10.7	10.8	11.0	11.1

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