



High Rate Series Battery

3FM12 (6V51W/Cell/1.67V/15Min)



LONG WAY® High Rate battery 3FM12 is design for high rate discharge. This series is a high energy, high intensity, and high quality output electrical energy product series, With 20% more energy density than same volume products at high rate discharge characteristics.

Features

- Maintenance free (no water topping-up required)
- No free acid (Non-spillable battery)
- Can be used in any orientation (excluding used inverted)
- Low Pressure Venting System
- Heavy Duty Grids
- The battery is designed for high rate usage
- Long Service Life
- Low Self Discharge
- Wide Operating Temperature Range

Applications

- UPS power supplies
- Emergency lighting equipment
- Precision instrument backup power
- Fire alarms and security systems
- Communications and electric equipment
- Office computers, processors and other office automation equipment
- Emergency power supplies in power generation plants and substations
- Telecommunications
- Various telemeter equipment

General: Design for standby power applications

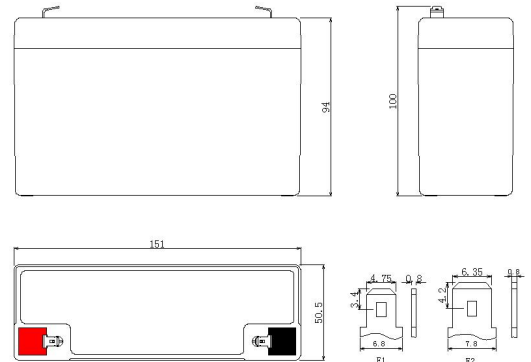
Design Life: Up to 5 years in standby service at 25°C	Float Charging Voltage: 6.75~6.90 VDC/Unit at 25°C
Operating Temperature Range: Nominal operating temperature: 25°C Discharge: -15°C~50°C Charge : -15°C~40°C Storage: -15°C~40°C	Equalization Charging Voltage: 7.20~7.50 VDC/Unit at 25°C Self Discharge: Less than 10% after 90 days, can be stored up to 6 months at 25°C; Fully recharge is required before usage



ISO9001: 2015
ISO14001:2015
ISO45001:2018

Specifications: Designed according with the IEC61056-1/2:2012

Nominal Voltage	6V
Nominal Capacity	51W@15min-rate to 1.67V per cell 25°C 12Ah@20hr,25°C
Weight	Approx. 1.70 ± 3% kg
Internal Resistance	Approx. 10.5mΩ @ full charged 25°C
Terminal	F1/F2
Max. Discharge Current	190A (3sec.)
Max. Charge Current	3.6A
Container Material	Standard: ABS (UL94-HB) Optional: Flame Retardant ABS(UL94-V0)



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	3min	5min	10min	15min	20min	30min	60min	90min
4.80	84.0	70.0	34.6	26.9	19.7	13.8	8.40	5.22
5.00	81.9	68.2	33.7	26.3	19.2	13.5	8.32	5.17
5.10	79.8	66.5	32.5	25.1	18.4	13.2	8.06	5.04
5.25	76.4	63.8	31.6	24.7	18.2	12.8	7.81	5.01

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	5min	8min	10min	15min	20min	30min	60min	90min
4.80	455	380	191	148	108	76.6	48.6	30.4
5.00	447	373	190	148	107	75.9	48.1	30.0
5.10	440	367	183	142	104	74.7	46.7	29.2
5.25	427	356	178	139	103	73.5	45.2	29.1

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NOTE: This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Long Way for the latest information.