

# 6-FMX Series

## Front Terminal Battery

6-FMX-190



SHUANGDENG GROUP

shoto



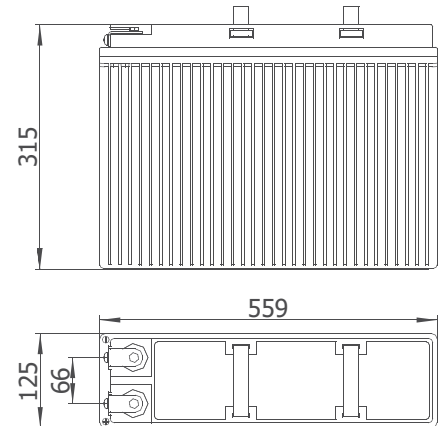
### Main Applications

- Telecom site
- Outdoor base station
- Floating operation site
- UPS

### Benefits

- Front terminal design, easy access for faster installation and maintenance
- Optimal energy density, save floor space
- No leakage and no acid smog spray during the operation

### Dimensions



### Technical Parameters

Nominal Voltage	12 V
Capacity	190 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)
Weight	56.5 kg(124.56lbs)
Dimensions	Length: 559mm (22.01 in) Width: 125 mm (4.92in) Height: 315mm (12.40 in)
Internal Resistance (full charged)	3.6 mΩ
Short-circuit Current	2852 A
Self Discharge @25°C(77°F)	Less than 4% after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C(-40°F ~ 122°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage:-20°C ~ 40°C(-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 25°C (59°F ~ 77°F)
Recommended Charging Current	38 A
Charging Voltage @25°C(77°F)	Float: 2.23 V/cell Equalize: 2.35 V/cell
Terminal	M6
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature(C <sub>10</sub> )	103% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design Life @25°C(77°F)	12 years

### Certification

- ☑ ISO 9001
- ☑ ISO 14001
- ☑ GB/T 28001
- ☑ UL
- ☑ CE

### Technical Features

- Excellent capacity retention rate
- Long life float service design
- Excellent over discharge recovery capability

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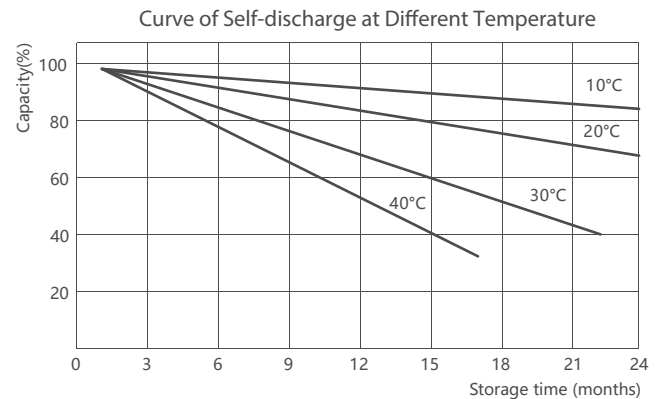
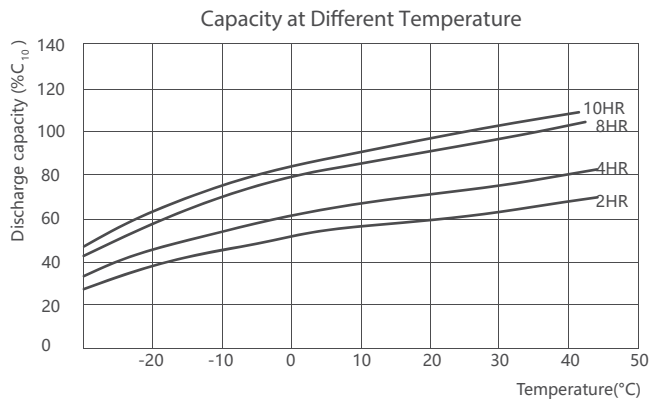
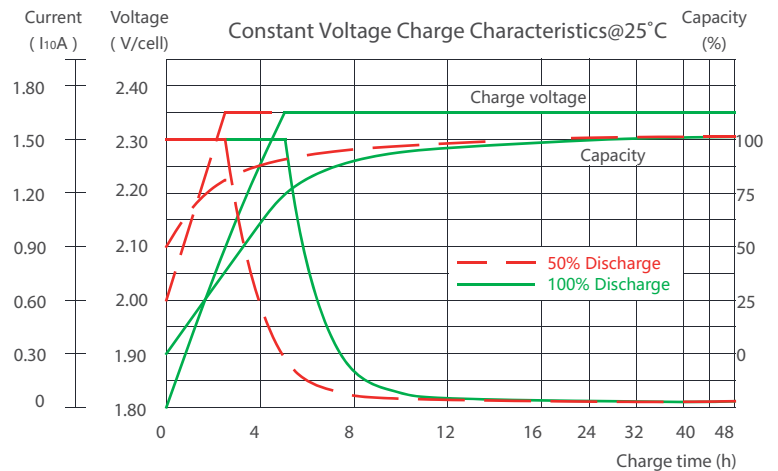
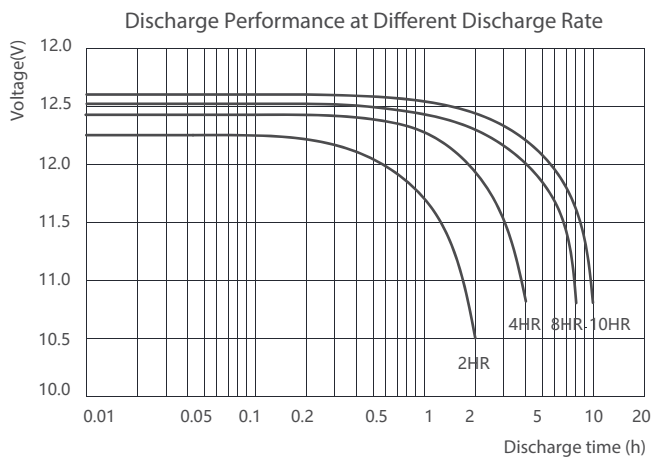
#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.70V	196.0	111.7	65.6	48.5	38.8	32.9	29.1	23.4	19.4	10.3
1.75V	185.4	108.1	64.8	48.1	38.4	32.7	28.9	23.2	19.2	10.2
1.80V	177.2	106.1	63.8	47.5	38.0	32.3	28.7	23.0	19.0	10.1
1.83V	171.2	101.8	63.1	47.1	37.6	31.9	28.5	22.8	18.8	10.0
1.85V	164.9	98.4	62.5	46.6	37.2	31.7	28.3	22.6	18.6	9.9

#### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.70V	360.2	207.7	125.7	94.4	75.5	65.1	58.5	46.7	38.8	20.3
1.75V	344.6	203.8	124.6	94.2	75.3	65.0	58.0	46.4	38.4	20.2
1.80V	333.5	201.5	124.0	93.8	75.0	64.6	57.4	46.0	38.2	20.1
1.83V	326.0	194.7	123.0	93.5	74.9	64.3	57.0	45.8	37.8	20.0
1.85V	317.8	190.1	122.3	92.7	74.5	64.2	56.6	45.6	37.6	19.9

#### Performance Curve



#### \*Declaration:

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