

6-FMXH Series

Front Terminal High Temperature Battery

6-FMXH-100B



shoto



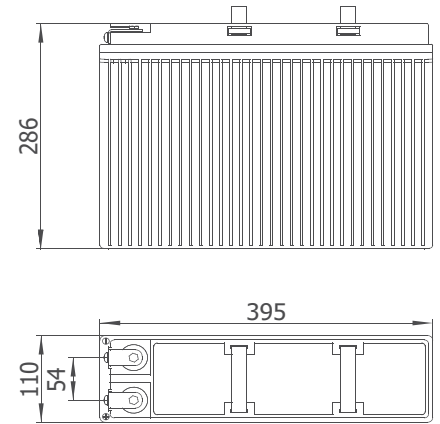
Main Applications

- High temperature environment (35°C)
- Outdoor base station
- Floating operation site
- UPS

Benefits

- Reduce operational cost (less cooling consumption)
- Reduce CO₂ emission
- Secure operation under high temperature up to 55°C
- Double floating life vs. traditional VRLA battery under 35°C

Dimensions



Technical Parameters

Nominal Voltage	12 V
Capacity	100 Ah @10hr to 1.80 V per cell @ 25°C(77°F) 103 Ah @10hr to 1.80 V per cell @ 35°C(95°F)
Weight	31.5kg (69.45 lbs)
Dimensions	Length: 395 mm (15.55 in) Width: 110 mm (4.33 in) Height: 286 mm (11.26 in)
Internal Resistance (full charged)	5.0 mΩ
Short- circuit Current	2122 A
Self Discharge @ 35°C(95°F)	Less than 4% after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 65°C(-40°F ~ 149°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage: -20°C ~ 40°C(-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 35°C(59°F ~ 95°F)
Recommended Charging Current	20 A
Charging Voltage @35°C(95°F)	Float: 2.23 V/cell Equalize: 2.35 V/cell
Terminal	M6
Container Materials	High Temp ABS/High Temp ABS V0 (Optional)
Capacity Affected by Temperature(C ₁₀)	105% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design Life @35°C(95°F)	10 years

Certification

- ISO9001
- ISO14001
- GB/T 28001
- UL
- CE

Technical Features

- Good performance for continuous operation up to 35°C
- Extend service life under high temperature
- Excellent over discharge recovery capability

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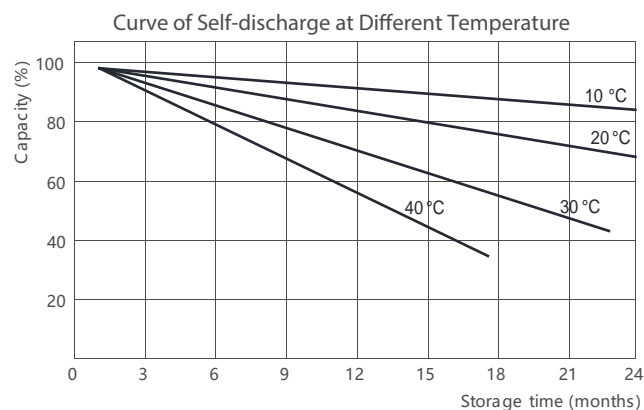
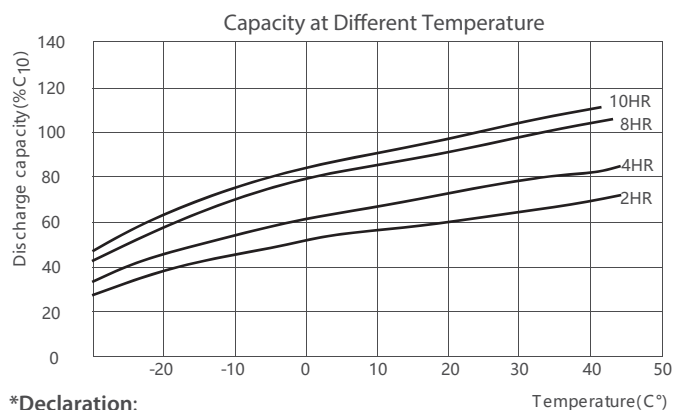
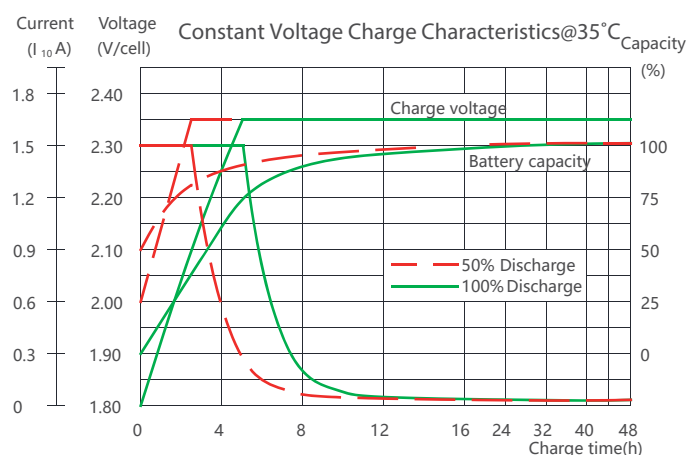
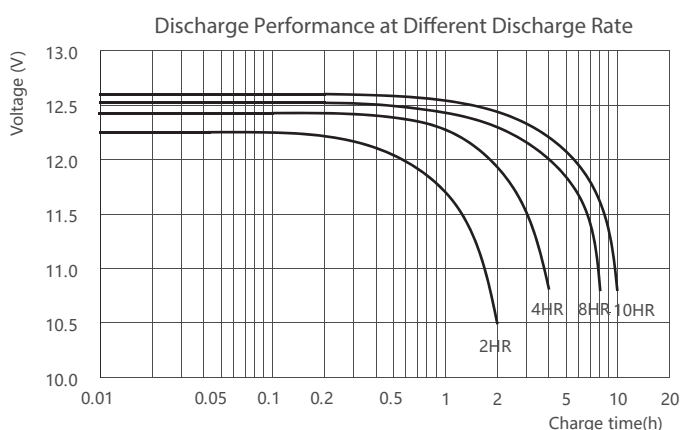
Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr
1.70V	100.0	57.0	34.4	26.4	21.7	17.9	15.3	12.3	10.2	8.6
1.75V	94.6	55.1	34.0	25.9	21.4	17.7	15.2	12.2	10.1	8.5
1.80V	90.4	54.1	33.6	25.3	21.0	17.5	15.1	12.1	10.0	8.4
1.83V	87.3	51.9	33.2	25.1	20.8	17.3	15.0	12.0	9.9	8.3
1.85V	84.1	50.2	32.9	24.8	20.6	17.2	14.9	11.9	9.8	8.2

Constant Power Discharge Characteristics Unit: W/cell (35°C, 95°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr
1.70V	183.8	105.9	65.9	52.0	43.2	35.6	30.8	24.6	20.4	17.1
1.75V	175.8	104.0	65.5	51.2	42.7	35.2	30.5	24.4	20.2	16.9
1.80V	170.1	102.8	65.2	50.4	42.1	34.9	30.2	24.2	20.1	16.8
1.83V	166.3	99.3	64.7	49.9	41.8	34.6	30.0	24.1	19.9	16.6
1.85V	162.1	97.0	64.4	49.7	41.5	34.4	29.8	24.0	19.8	16.5

Performance curve



*Declaration:

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