

# FTC

## Front Terminal Cycle Battery

### FTC-170



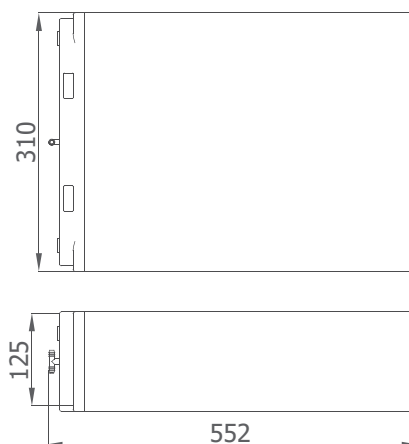
### Main Applications

- ▶ Renewable energy (wind & solar) site
- ▶ Off-grid & bad-grid environment
- ▶ Communication and signal systems
- ▶ UPS and emergency illumination
- ▶ IDC

### Benefits

- ▶ Reduce operational cost (less cooling consumption)
- ▶ Reduce CO<sub>2</sub> emission
- ▶ Deep cycle rate life ≥ 1500 (at 25°C, 60%DOD) & 1350 (at 35°C, 60%DOD)
- ▶ Good floating life performance and extremely high cyclic life

### Dimensions



### Technical Parameters

Nominal Voltage	12 V
Capacity	170 Ah @ 10hr to 1.80 V per cell @ 25°C(77°F) 175 Ah @ 10hr to 1.80 V per cell @ 35°C(95°F)
Weight	58 kg(127.87 lbs)
Dimensions	Length: 552 mm (21.73 in) Width: 125 mm (4.92 in) Height: 310 mm (12.20 in)
Internal Resistance (full charged)	6.0 mΩ
Short-circuit Current	1804 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)
Maximum Charging Current	51 A
Charging Voltage @35°C(95°F)	Float: 2.23 V/cell Equalize: 2.35 V/cell
Terminal	M6
Container Materials	High strength ABS/High strength ABS V0(Optional)
Capacity Affected by Temperature(C <sub>10</sub> )	105% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design Life @35°C(95°F)	15 years

### Certification

- ISO9001
- ISO14001
- GB/T28001
- UL
- CE

### Technical Features

- ▶ Good performance for continuous operation up to 35°C
- ▶ Using lead carbon technology, reduce the cathode sulphation
- ▶ Front terminal connections for fast and easy installation and maintenance
- ▶ Horizontal structure design, delay electrolyte stratification, extend battery service life

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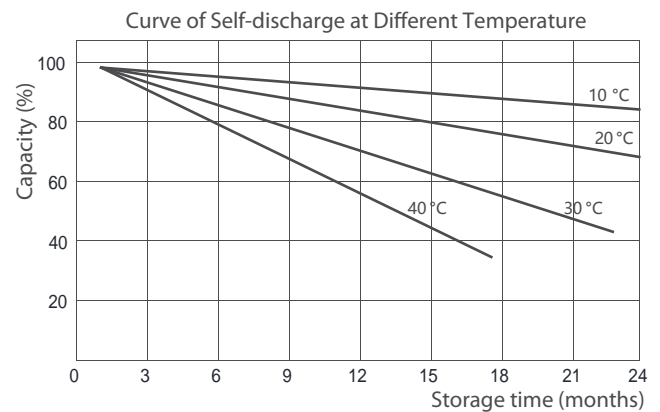
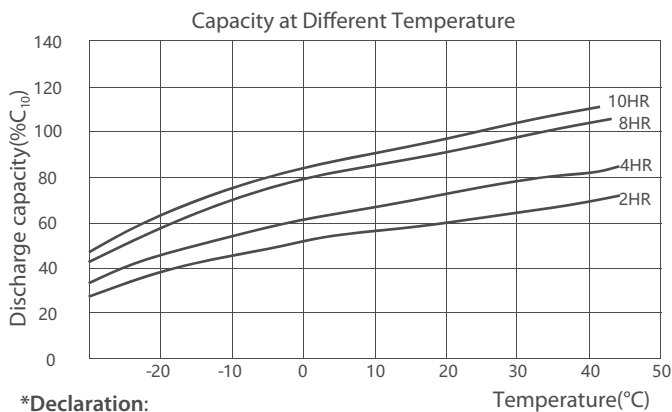
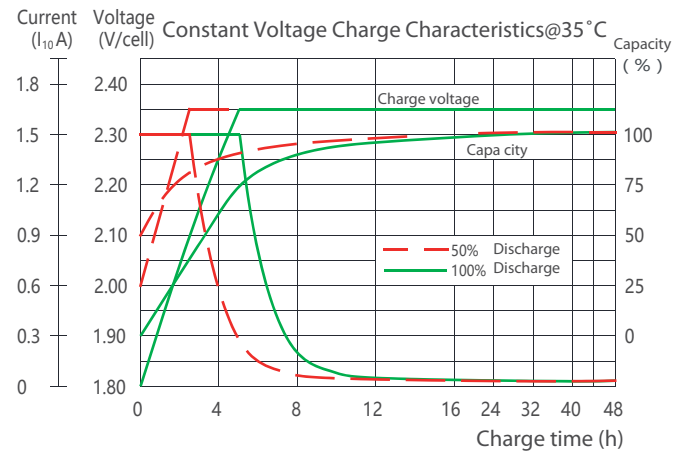
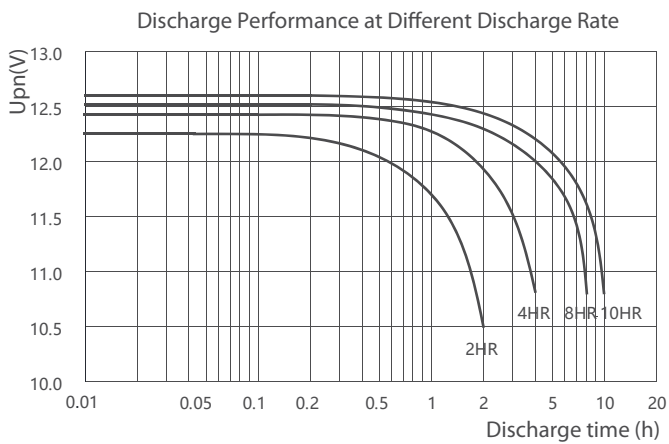
### Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr
1.70V	170.0	94.9	58.5	44.9	36.9	30.4	26.0	20.9	17.3	14.6
1.75V	140.8	93.5	57.8	44.0	36.4	30.1	25.8	20.7	17.2	14.5
1.80V	132.6	90.5	57.1	43.0	35.7	29.8	25.7	20.6	17.0	14.3
1.83V	123.4	86.2	56.4	42.7	35.4	29.4	25.5	20.4	16.8	14.1
1.85V	118.5	82.3	55.9	42.2	35.0	29.2	25.3	20.2	16.7	13.9

### 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	298.2	176.8	112.0	88.4	73.4	60.5	52.4	41.8	34.7	29.1
1.75V	263.8	174.8	111.4	87.0	72.6	59.8	51.9	41.5	34.3	28.7
1.80V	248.2	168.8	110.8	85.7	71.6	59.3	51.3	41.1	34.2	28.6
1.83V	230.5	164.9	110.0	84.8	71.1	58.8	51.0	41.0	33.8	28.2
1.85V	225.6	160.9	109.5	84.5	70.6	58.5	50.7	40.8	33.7	28.1

### Performance Curve



**\*Declaration:**

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