

FTC Series

Front Terminal Cycle Battery

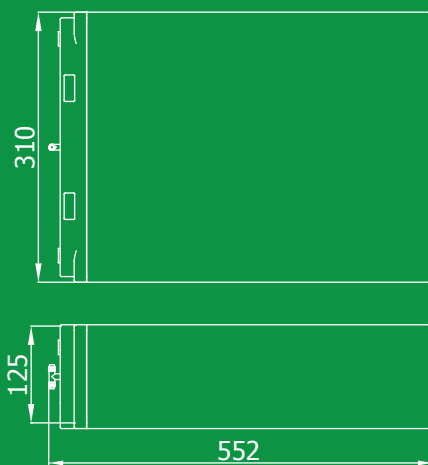
FTC-170



power the future



• Dimensions :



• Attain Certificate :

- ☒ ISO9001:2008
- ☒ ISO14001:2004
- ☒ GB/T 28001-2011
- ☒ UL
- ☒ CE

• 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 CO₂ emission
- Deep cycle rate life ≥ 1500 (at 25°C, 60%DOD)
- Good floating life performance and extremely high cyclic life

• Technical Features

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

• Technical Parameters

Normal Voltage	12V
Capacity	170 Ah @ 10hr to 1.80V per cell @ 25°C(77°F) 175 Ah @ 10hr to 1.80V per cell @ 35°C(95°F)
Weight	58kg(127.87lbs)
Dimensions	Length: 552mm (21.73in) Width: 125mm (4.92in) Height: 310mm (12.20 in)
Internal Resistance (full charged)	5.2mΩ
Short- circuit Current	1804A
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	51A
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 ₁₀)	105 % @ 40°C(104°F) 85 % @ 0°C(32°F) 60 % @ -20°C(-4°F)
Design Life @35°C(95°F)	15 years

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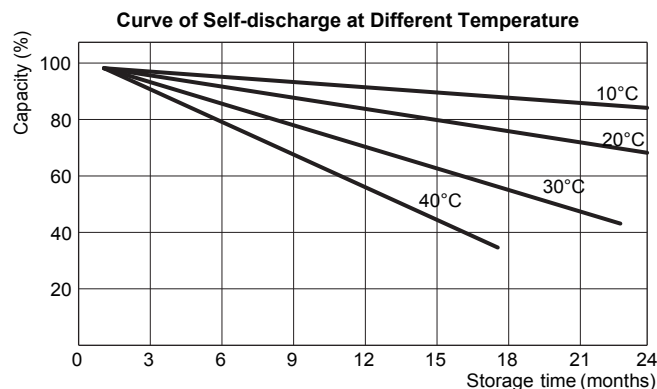
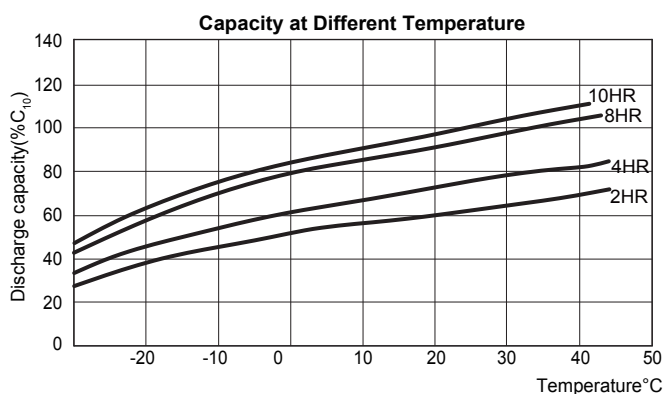
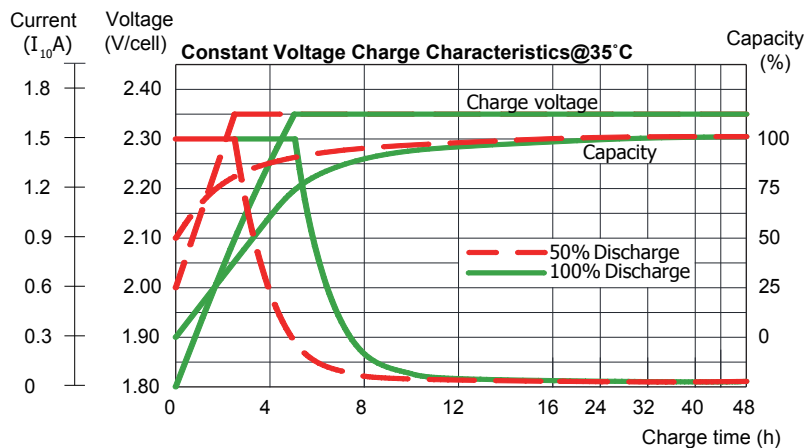
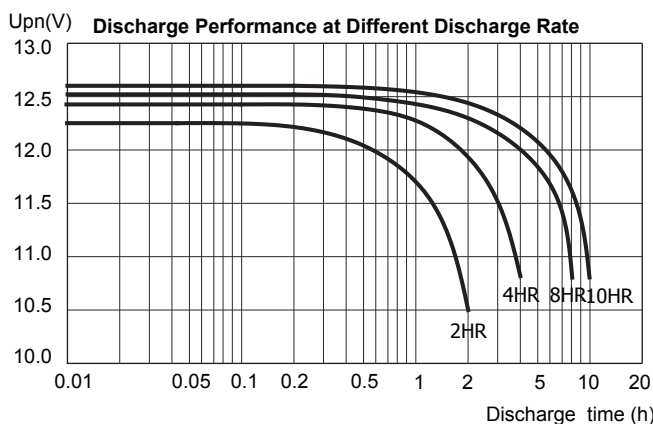
• Constant Current Discharge Characteristics Unit: A (35°C,95°F)

F.V/Time	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr
1.70V	170.0	96.9	58.5	44.9	36.9	30.4	26.0	20.9	17.3	14.6
1.75V	160.8	93.7	57.8	44.0	36.4	30.1	25.8	20.7	17.2	14.5
1.80V	153.7	92.0	57.1	43.0	35.7	29.8	25.7	20.6	17.0	14.3
1.83V	148.4	88.2	56.4	42.7	35.4	29.4	25.5	20.4	16.8	14.1
1.85V	143.0	85.3	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	312.5	180.0	112.0	88.4	73.4	60.5	52.4	41.8	34.7	29.1
1.75V	298.9	176.8	111.4	87.0	72.6	59.8	51.9	41.5	34.3	28.7
1.80V	289.2	174.8	110.8	85.7	71.6	59.3	51.3	41.1	34.2	28.6
1.83V	282.7	168.8	110.0	84.8	71.1	58.8	51.0	41.0	33.8	28.2
1.85V	275.6	164.9	109.5	84.5	70.6	58.5	50.7	40.8	33.7	28.1

• Performance Curve



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