

FT Series

FTC12-200 12V200Ah

Sacred Sun front terminal batteries have been designed specifically for applications which demand the highest levels of security and reliability. The monoblocs case made from fire resistant ABS plastic. Have excellent high rate performance, compact design and standard footprint for 19" and 23" cabinets. Thick Pb-Ca-Sn alloy grids are designed to resist corrosion and prolong service life. Can be used in one place with equipment and service staff.

Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system, with external tubes

Applications

- Telecommunications
- Power system
- UPS
- Emergency power
- Data center

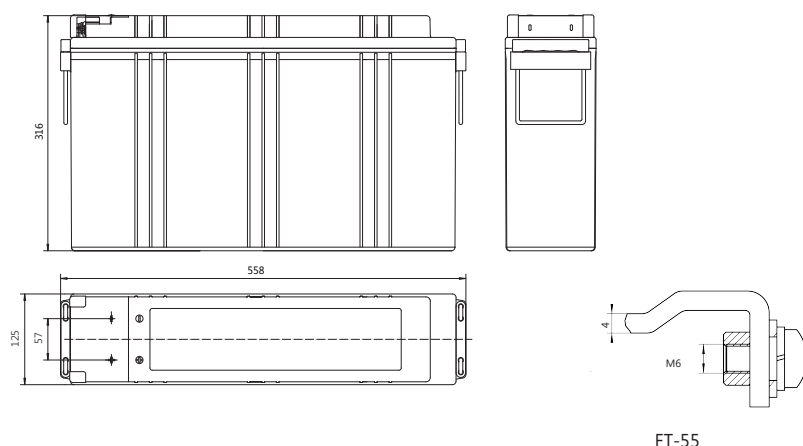
Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide

Specifications

Battery Model	FTC12-200			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (20.0A, 1.80V)	5HR (35.6A, 1.80V)	3HR (50.7A, 1.80V)	1HR(111.7A, 1.75V)
	200	178	152.1	111.7
Dimensions (mm)	Length	Width	Height	Total Height
	558	125	316	316
Approx. Weight (kg)	59.0			
Reference Internal Resistance (mΩ)	3.2 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1550			
Self-Discharge (25°C)	≤1.5% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 40A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3650			
Temperature range (°C)	-20°C to +50°C			
Discharge temperature range (°C)	-40°C to +50°C			
Charge temperature range (°C)	-20°C to +45°C			
Storage temperature range (°C)	-20°C to +45°C			

Drawing

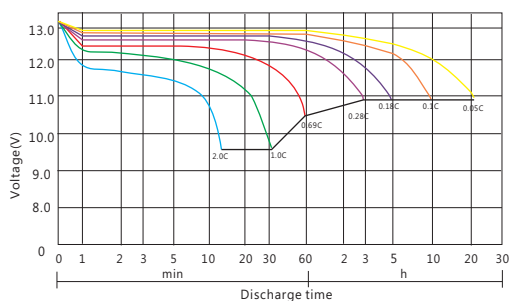


Discharge Data

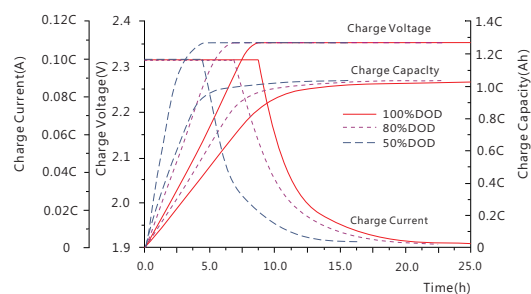
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min					h								
	5	10	15	30	45	1	2	3	4	5	6	8	10	20
1.65	538.5	426.0	348.0	250.3	164.5	132.9	79.4	54.8	44.8	37.2	31.7	24.6	20.6	11.2
1.70	516.3	404.8	330.0	234.5	160.4	125.8	77.6	53.2	44.1	36.7	31.3	24.5	20.4	11.1
1.75	474.6	364.2	319.0	218.8	148.7	114.6	73.8	52.3	43.3	36.4	30.7	24.2	20.3	10.8
1.80	437.5	333.8	300.0	209.8	145.0	111.7	72.4	51.7	42.6	36.0	30.4	24.0	20.1	10.8
1.85	390.2	310.1	276.2	192.8	130.2	103.5	71.3	50.7	42.2	35.6	30.1	23.7	20.0	10.7

Constant Power Discharge Data (25°C, W/cell)														
End Voltage (V/cell)	min					h								
	5	10	15	30	45	1	2	3	4	5	6	8	10	20
1.65	929.1	747.6	600.0	456.0	332.8	250.3	157.9	115.8	88.2	71.1	60.9	47.3	40.7	21.5
1.70	888.4	703.6	578.9	449.0	323.0	243.6	155.6	112.6	87.1	70.7	60.7	47.1	40.5	21.4
1.75	844.4	655.1	547.4	440.0	297.9	232.3	152.2	109.5	85.9	70.4	60.4	46.7	40.4	21.2
1.80	796.1	614.4	508.4	417.9	291.4	227.8	151.2	108.4	84.9	69.9	60.0	46.5	40.2	20.9
1.85	740.7	591.9	497.9	395.8	262.2	219.9	147.7	105.3	84.5	69.2	59.6	46.2	39.4	20.8

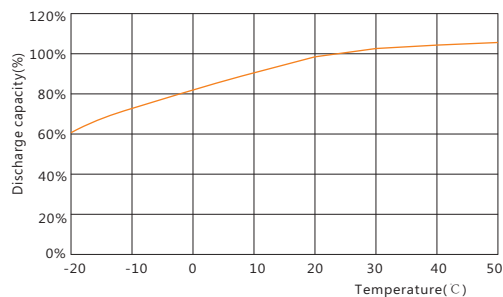
Performance Curve



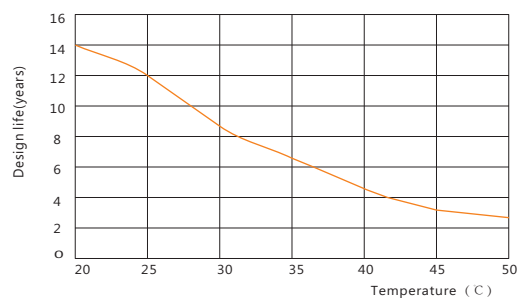
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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