

FT Series

FTA12-190HT 12V190Ah

Sacred Sun front terminal batteries have been designed specifically for applications which demand the highest levels of security and reliability. The monoblocs 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.

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

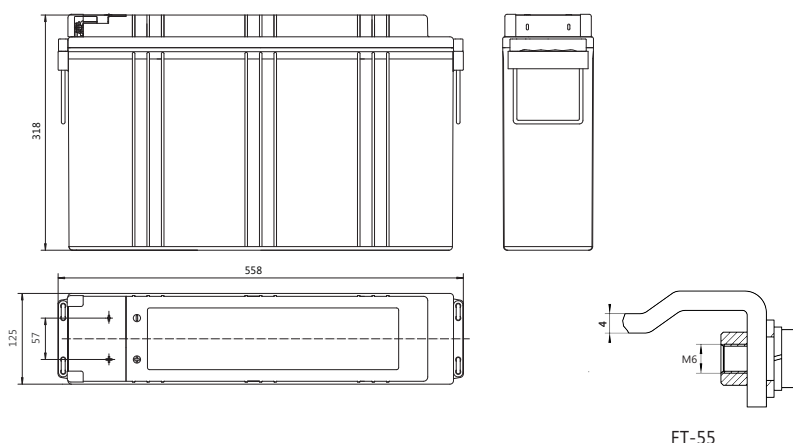
Applications

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

Standards

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

Drawing



Specifications

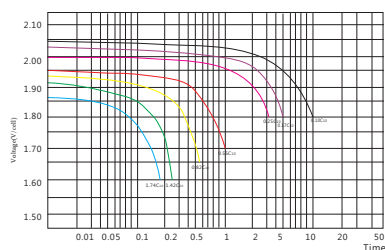
Battery Model	FTA12-190HT			
Design Life (years,35°C)	10			
Capacity (Ah, 25°C)	10HR (19.0A, 1.80V)	5HR (33.3A, 1.80V)	3HR (49A, 1.80V)	1HR(107A, 1.75V)
	190	166.5	147	107
Dimensions (mm)	Length	Width	Height	Total Height
	558	125	318	318
Approx. Weight (kg)	59.0			
Reference Internal Resistance (mΩ)	3.3 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	1500			
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: 38A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3650			

Discharge Data

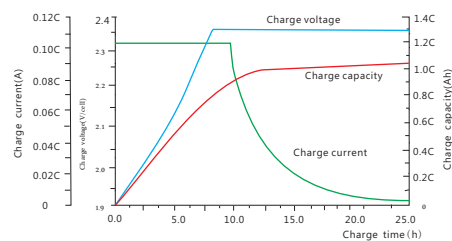
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min					h								
	5	10	15	30	45	1	2	3	4	5	6	8	10	20
1.60	506.0	385.7	306.6	198.3	141.3	114	70.7	53.0	43.1	36.1	31.2	24.5	20.5	10.8
1.65	490.5	374.4	300.5	190.0	139.6	111	69.2	52.1	42.4	35.3	30.6	24.1	20.1	10.6
1.70	450.9	346.0	290.1	186.0	138.3	110	67.8	51.1	41.6	34.6	30.0	23.8	19.8	10.4
1.75	415.6	317.1	274.0	183.0	137.8	107	66.5	50.0	40.7	34.0	29.5	23.2	19.4	10.2
1.80	370.7	294.6	262.4	163.9	123.7	104	65.2	49.0	39.9	33.3	28.9	22.8	19.0	9.98

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
1.60	882.6	710.2	570.0	376	295.2	214	134	102.0	83.0	69.9	60.5	47.5	40.2	21.3
1.65	844.0	668.4	550.0	374	290.6	211	132	100.0	81.8	68.9	59.7	47.1	39.7	20.9
1.70	802.2	622.3	520.0	369	283.0	209	130	98.9	80.7	67.4	58.9	46.6	39.1	20.6
1.75	756.3	583.7	483.0	361	276.8	206	129	97.1	79.7	66.7	58.0	45.6	38.6	20.3
1.80	703.7	562.3	473.0	360	249.1	201	127	95.8	78.0	65.5	57.2	45.4	38.0	20.0

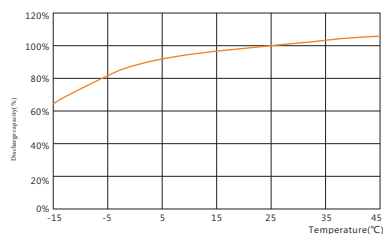
Performance Curve



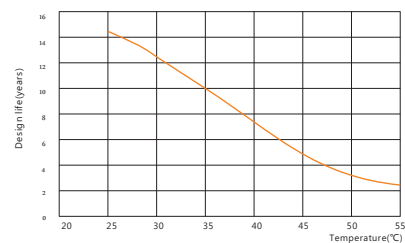
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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