

# HTB Series

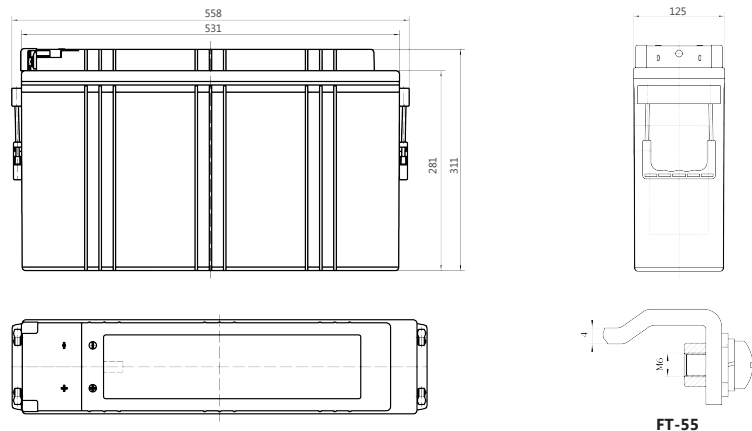
## FTA12-170HT 12V170Ah

Sacred Sun HTB VRLA battery uses latest AGM technology designed for high temperature resistant performance with good cycle life and fast charging acceptance ability. Its average temperature can be 35-40°C. HTB's reduced needs for cooling saves energy and reduces cost. It is suitable for high temperature environments both in floating and cyclic applications. Sacred Sun has two ranges: 12V front terminal and 2V top terminal.

### Benefits

- Long life according to EUROBAT Classification
- Specifically designed for semi-stable mains
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system

### Drawing



### Applications

- High temperature BTS
- Unstable grid BTS
- Remote area BTS
- Solar (Wind) energy storage system

### Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide
- Installation compliant with EN50272-2

### Specifications

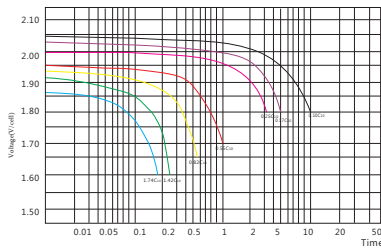
Battery Model	FTA12-170HT			
Design Life ( Years, 35°C)	10			
Capacity (Ah, 25°C)	10HR (17A, 1.80V)	5HR (29.8A, 1.80V)	3HR (43.9A, 1.80V)	1HR (96.1A, 1.75V)
	170	149	131.7	96.1
Dimensions (mm)	Length	Width	Height	Total Height
	558	125	311	311
Approx. Weight (kg)	54.7			
Reference Internal Resistance (mΩ)	3.4 ±15% ( fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/5 Sec.)	1350			
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: 30A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3500			

## Discharge Data

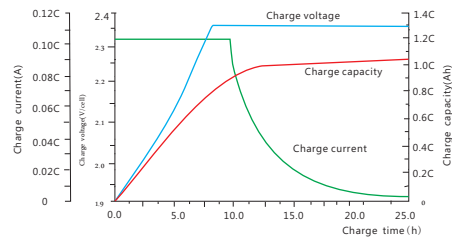
Constant Current Discharge Data (25°C, A)										
End Voltage (V/cell)	min	h								
	30	1	2	3	4	5	6	8	10	20
1.60	182	102	63.2	47.4	38.6	32.3	27.9	21.9	18.4	9.64
1.65	179	99.6	61.9	46.6	37.9	31.6	27.4	21.6	18.0	9.45
1.70	175	98.1	60.7	45.7	37.2	30.9	26.9	21.3	17.7	9.27
1.75	170	96.1	59.5	44.7	36.4	30.4	26.4	20.7	17.3	9.10
1.80	168	93.3	58.3	43.9	35.7	29.8	25.8	20.4	17.0	8.93

Constant Power Discharge Data (25°C, W/cell)										
End Voltage (V/cell)	min	h								
	30	1	2	3	4	5	6	8	10	20
1.60	336	192	120	91.1	74.3	62.5	54.1	42.5	36.0	19.0
1.65	334	189	118	89.8	73.2	61.7	53.4	42.2	35.5	18.7
1.70	330	187	117	88.4	72.2	60.3	52.7	41.7	35.0	18.4
1.75	323	184	115	86.9	71.3	59.6	51.9	40.8	34.5	18.2
1.80	322	180	113	85.7	69.8	58.6	51.2	40.6	34.0	17.9

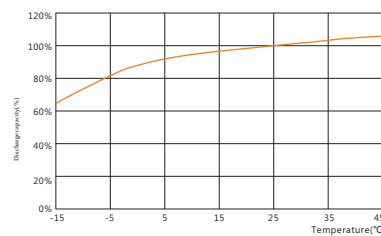
## Performance Curve



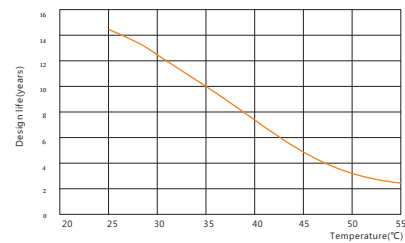
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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