

# HTB Series

## GFM-800HT 2V800Ah

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

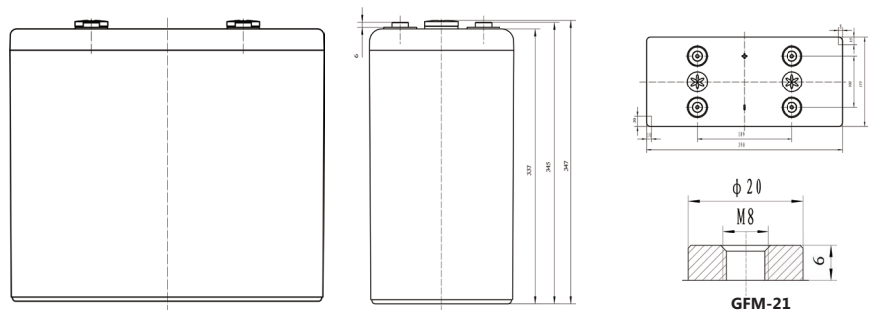
### Applications

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

### Standards

- JIS C8704-1
- JIS C8704-2
- IEC 60896-21/22
- IEC 61427
- EUROBAT guide
- Installation compliant with EN50272-2

### Drawing



### Specifications

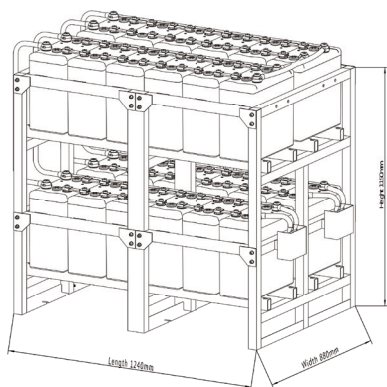
Battery Model	GFM-800HT			
Design Life ( Years, 35°C)	10			
Capacity (Ah, 25°C)	10HR (80A, 1.80V)	5HR (145A, 1.80V)	3HR (212A, 1.80V)	1HR (464A, 1.75V)
	800	725	636	464
Dimensions (mm)	Length	Width	Height	Total Height
	390	177	337	347
Approx. Weight (kg)	57.0			
Reference Internal Resistance (mΩ)	0.15 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	5200			
Self-Discharge (25°C)	≤ 1% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.0mV/°C/cell), max charge current: 160A		2.25 (-3.0mV/°C/cell)	
Short Circuit Current (A)	10000			

## Discharge Data

Constant Current Discharge Data (25°C, A)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	1904	1458	1195	1009	794	497	305	225	152	134	106.2	91.1	38.9
1.65	1698	1323	1094	931	741	484	300	222	150	132	105.2	89.5	38.7
1.70	1552	1202	1003	892	692	467	294	219	149	131	104.3	88.0	38.4
1.75	1334	1102	935	836	665	464	289	215	147	129	103.2	85.8	38.2
1.80	1181	1006	874	778	639	448	282	212	145	128	102.1	80.0	37.9

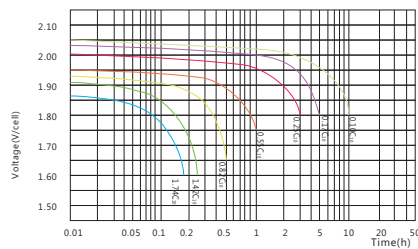
Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	3000	2507	2094	1819	1475	964	611	445	301	265	217	181	89.7
1.65	2693	2255	1901	1661	1380	922	590	433	296	260	214	178	88.0
1.70	2531	2046	1751	1533	1291	891	574	424	292	256	212	176	86.5
1.75	2251	1882	1616	1428	1207	847	560	415	287	253	209	174	85.2
1.80	2086	1720	1485	1314	1135	822	545	407	282	249	206	172	84.3

## Rack Layout

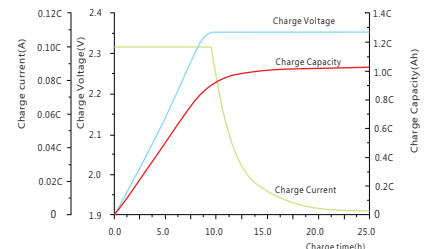


48V Standard Rack  
 Rack material: powder-coated steel  
 Height\*width: 2\*2  
 Ref. GFM-800HT Rack (approx. weight: 1498kg)

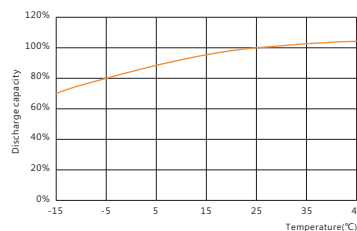
## Performance Curve



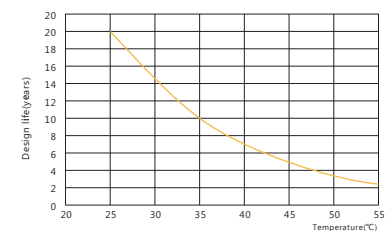
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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