

# HTB Series

## GFM-1000HT 2V1000Ah

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

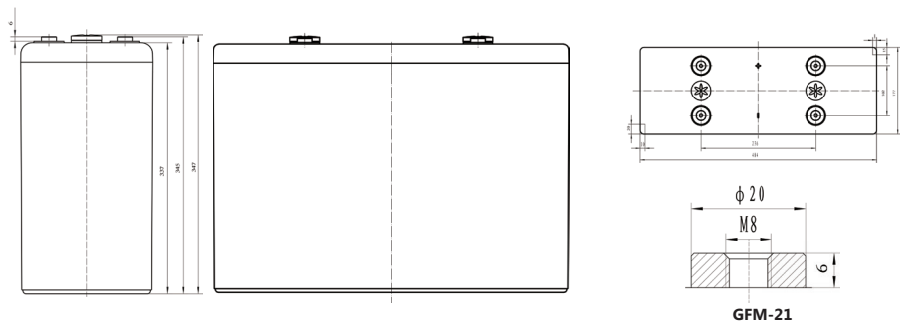
### Applications

- 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

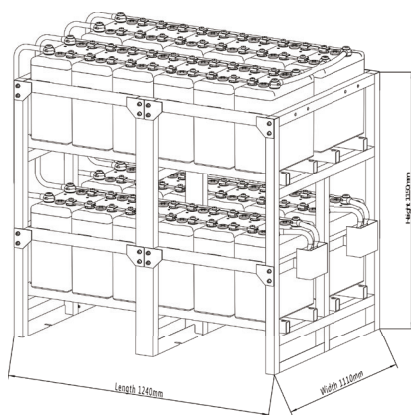
Battery Model	GFM-1000HT			
Design Life ( Years, 35°C)	10			
Capacity (Ah, 25°C)	10HR (100A, 1.80V)	5HR (181A, 1.80V)	3HR (265A, 1.80V)	1HR (580A, 1.75V)
	1000	905	795	580
Dimensions (mm)	Length	Width	Height	Total Height
	484	177	337	347
Approx. Weight (kg)	71.0			
Reference Internal Resistance (mΩ)	0.14 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	6200			
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: 200A		2.25 (-3.0mV/°C/cell)	
Short Circuit Current (A)	11000			

## 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	2380	1823	1494	1262	992	621	381	281	190	167	133	114	48.6
1.65	2123	1654	1368	1164	927	604	375	277	188	165	131	112	48.3
1.70	1940	1503	1253	1114	865	584	368	273	186	164	130	110	48.0
1.75	1667	1377	1169	1045	832	580	361	269	183	162	129	107	47.7
1.80	1476	1257	1093	973	798	560	353	265	181	160	128	100	47.4

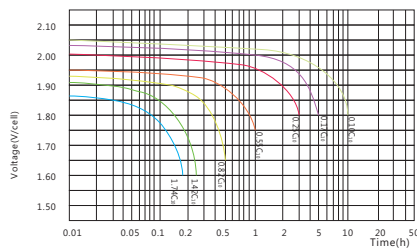
Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	3750	3134	2618	2274	1844	1205	764	556	377	331	271	226	112.1
1.65	3367	2818	2376	2077	1725	1153	738	541	370	324	268	222	110.0
1.70	3163	2558	2189	1917	1614	1114	718	530	365	320	264	220	108.1
1.75	2814	2353	2020	1785	1509	1062	700	519	358	316	261	217	106.5
1.80	2607	2151	1856	1643	1418	1027	681	508	352	311	257	215	105.4

## Rack Layout

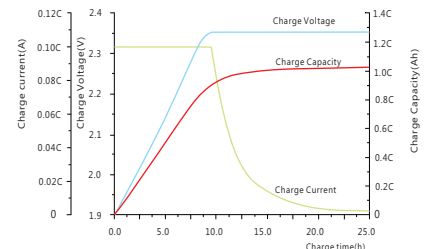


48V Standard Rack  
 Rack material: powder-coated steel  
 Height\*width: 2\*2  
 Ref. GFM-400HT Rack (approx. weight: 1809kg)

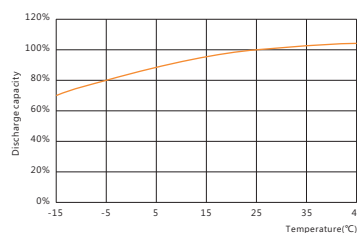
## Performance Curve



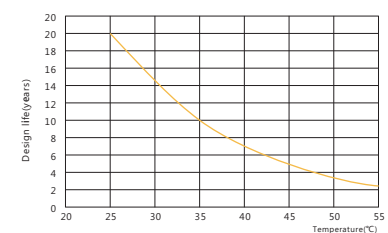
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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