

HTB Series

GFM-600HT 2V600Ah

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

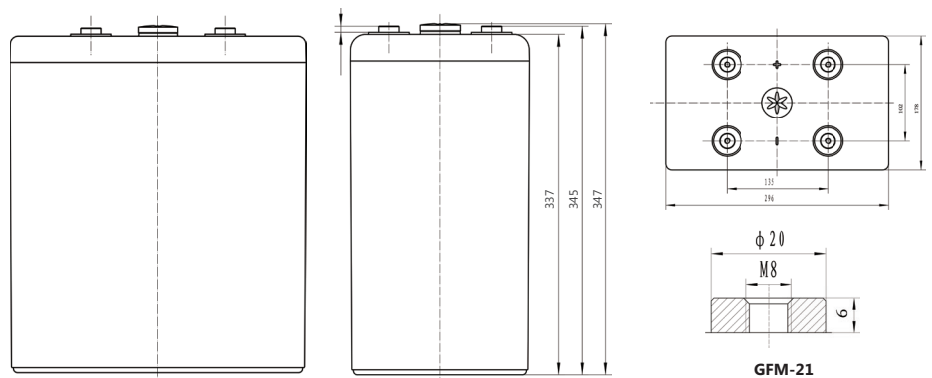
Applications

- 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

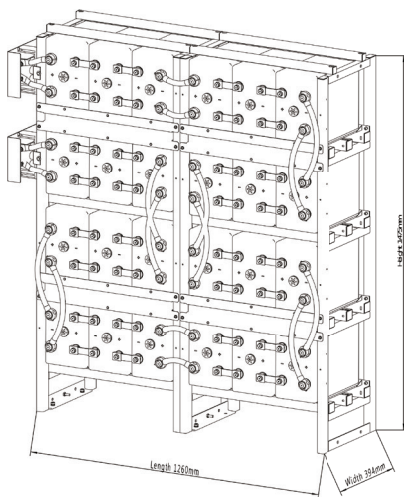
Battery Model	GFM-600HT			
Design Life (Years, 35°C)	10			
Capacity (Ah, 25°C)	10HR (60A, 1.80V)	5HR (109A, 1.80V)	3HR (159A, 1.80V)	1HR (348A, 1.75V)
	600	545	477	348
Dimensions (mm)	Length	Width	Height	Total Height
	296	178	337	347
Approx. Weight (kg)	43.0			
Reference Internal Resistance (mΩ)	0.35 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	3800			
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: 120A		2.25 (-3.0mV/°C/cell)	
Short Circuit Current (A)	6600			

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	1428	1094	896	757	595	373	229	169	114	100.0	79.7	68.3	29.2
1.65	1274	992	821	699	556	363	225	166	113	99.2	78.9	67.2	29.0
1.70	1164	902	752	669	519	350	221	164	111	98.2	78.2	66.0	28.8
1.75	1000	826	701	627	499	348	217	161	110	97.0	77.4	64.3	28.6
1.80	886	754	656	584	476	336	212	159	109	95.8	76.6	60.0	28.4

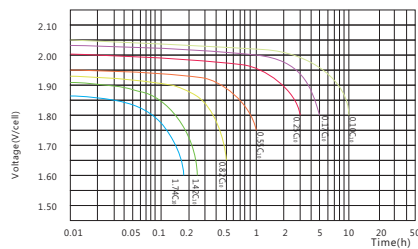
Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	2250	1880	1571	1364	1106	723	458	334	226	199	163	136	67.2
1.65	2020	1691	1425	1246	1035	692	443	325	222	195	161	133	66.0
1.70	1898	1535	1313	1150	968	668	431	318	219	192	159	132	64.9
1.75	1688	1412	1212	1071	906	637	420	311	215	190	157	130	63.9
1.80	1564	1290	1114	986	851	616	408	305	211	187	154	129	63.2

Rack Layout

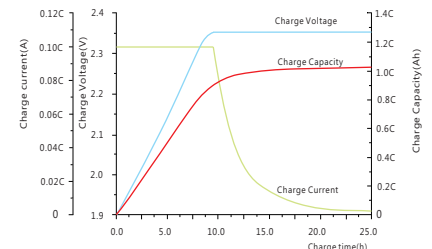


48V Standard Rack (Anti-seismic rack is optional)
 Rack material: powder-coated steel
 Height*width: 6*4/4*6 (optional)
 Ref. GFM-600HT Rack (approx. weight: 1125kg)

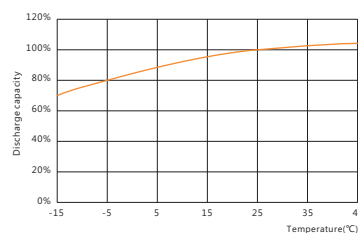
Performance Curve



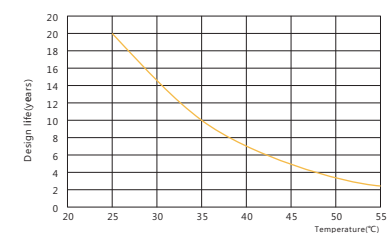
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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