

HTB Series

GFM-300HT 2V300Ah

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

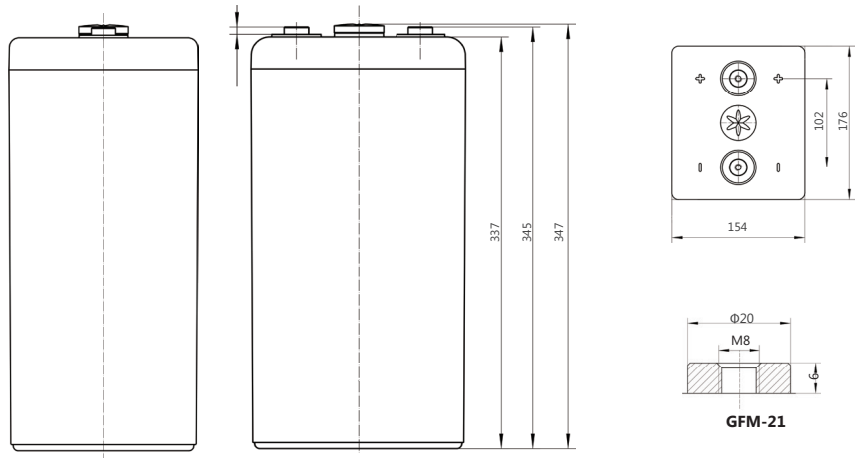
Applications

- 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

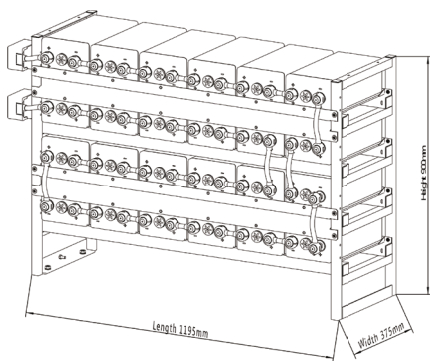
Battery Model	GFM-300HT			
Design Life (Years, 35°C)	10			
Capacity (Ah, 25°C)	10HR (30A, 1.80V)	5HR (52.2A, 1.80V)	3HR (76.3A, 1.80V)	1HR (165A, 1.75V)
	300	261	228.9	165
Dimensions (mm)	Length	Width	Height	Total Height
	154	176	337	347
Approx. Weight (kg)	21.5			
Reference Internal Resistance (mΩ)	0.34 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1800			
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: 100A		2.25 (-3.0mV/°C/cell)	
Short Circuit Current (A)	3900			

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	685	525	430	363	286	177	110	81.0	54.8	47.2	37.5	31.1	13.7
1.65	611	476	394	335	267	172	108	79.8	54.1	46.7	37.1	30.8	13.6
1.70	559	433	361	321	249	166	106	78.7	53.5	46.2	36.8	30.6	13.5
1.75	480	397	337	301	239	165	104	77.4	52.8	45.7	36.4	30.4	13.4
1.80	425	362	315	280	230	160	102	76.3	52.2	45.1	36.0	30.0	13.3

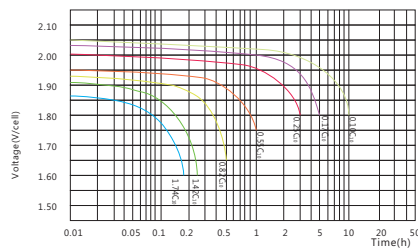
Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min					h							
	5	10	15	20	30	1	2	3	5	6	8	10	24
1.60	1125	869	726	630	491	321	203	151	102.0	89.9	73.6	61.5	30.5
1.65	919	781	659	576	460	307	197	147	101.0	88.2	72.7	60.4	29.9
1.70	812	709	607	531	430	297	191	144	99.2	87.0	71.9	59.8	29.4
1.75	715	652	560	495	402	283	186	141	97.4	85.9	70.9	59.1	28.9
1.80	662	596	515	455	378	274	181	138	95.7	84.6	70.0	58.4	28.6

Rack Layout

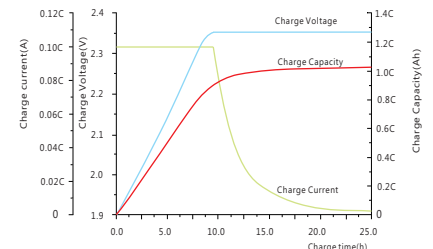


48V Standard Rack (Anti-seismic rack is optional)
 Rack material: powder-coated steel
 Height*width: 6*4/4*6 (optional)
 Ref. GFM-300HT Rack (approx. weight: 558kg)

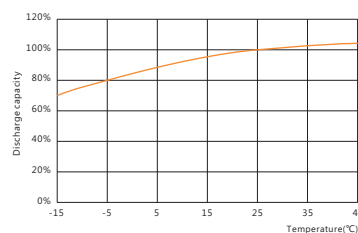
Performance Curve



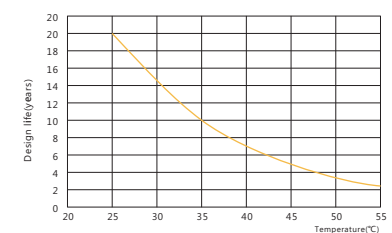
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

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