

# HRL Series

## HRL12-880W 12V240Ah

Sacred Sun HRL batteries adopt new appearance and constructure design, automatic welding+through the partition welding+heat sealing technolgy, full automatic production process with good consistency. It has excellent high power discharge, long floating backup time and fast charging performance. It can be widely used in data center, UPS, IDC room.

### Benefits

- Very long life according to EUROBAT Classification
- High power density, 30% higher than ordinary batteries
- Special lead paste formual and additives improve the battery service life
- Maximum charge efficiency
- Low self-discharge rate
- Wide range of power, easy sizing of batteries
- Easy installation and handling

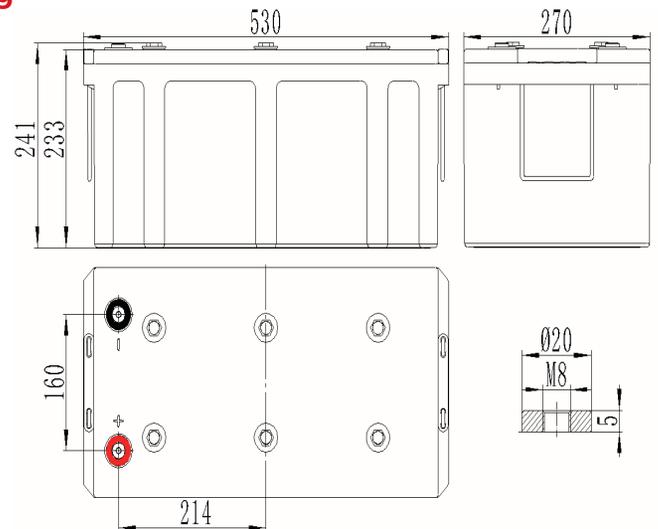
### Applications

- Data center
- UPS
- IDC room
- Emergency power
- HVDC system

### Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

### Drawing



### Specifications

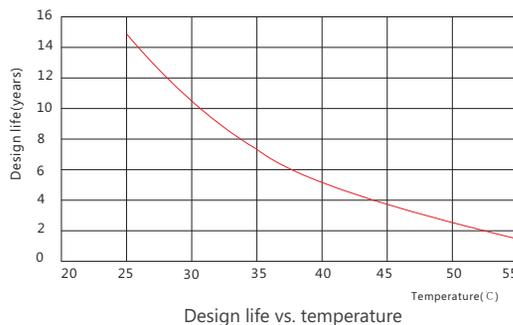
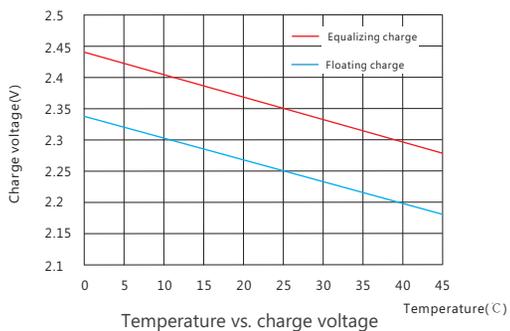
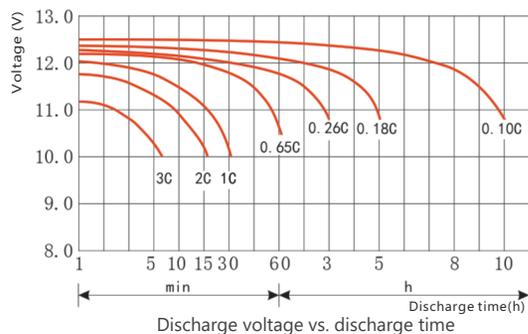
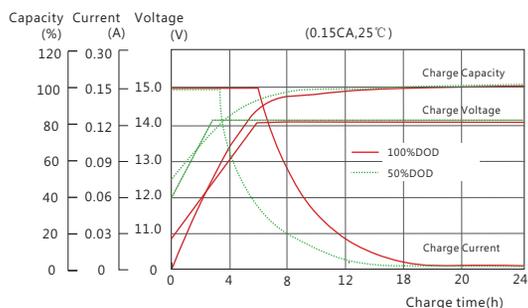
Battery Model	HRL12-880W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (148A, 1.70V)	10HR(24A, 1.80V)
	1030W/cell	880W/cell	148	240
Dimensions (mm)	Length	Width	Height	Total Height
	530	270	233	241
Approx. Weight (kg)	78.3			
Reference Internal Resistance (mΩ)	1.7±15%( full charged @ 25°C,testing device:HIOKIBT3562)			
Self-Discharge (25°C)	≤2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current:60A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	6200(For reference only)			

## Discharge Data

Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	1230	1030	890	740	627	520	377	298	240	185	144	112	92.8	79.8	61.5	49.3
1.65	1220	1020	885	732	622	515	374	295	238	183	143	111	92.4	79.5	61.3	49.2
1.67	1180	1000	880	725	617	512	370	293	236	180	142	110	92	79.2	61	49.1
1.70	1140	980	850	717	610	507	367	290	233	176	140	109	91.5	78.8	60.8	49
1.75	1100	950	820	696	590	497	358	282	227	170	138	106	90.3	78	60.2	48.7
1.80	1000	850	770	630	550	464	348	273	220	166	134	103	88	77	59.4	48.4

Constant Current Discharge Data (25°C, A)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	720	580	475	408	340	277	198	155	124	94	74.2	57.6	47.6	40.8	31.3	25.0
1.65	690	572	468	400	336	274	196	153	123	92	73.4	56.8	47.2	40.5	31.0	24.9
1.67	660	557	458	396	332	270	194	150	120	91	72.7	56.3	46.8	40.3	30.8	24.8
1.70	630	548	445	388	327	267	190	148	118	90	71.8	55.5	46.5	40.0	30.7	24.7
1.75	590	505	425	372	316	258	185	144	115	87.0	69.7	53.7	45.5	39.2	30.2	24.4
1.80	540	454	400	353	302	240	177	137	110	83.6	67.2	51.6	44.4	38.4	29.5	24.0

## Performance Curve



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