

# HRL Series

## HRL12-570W 12V142Ah

Sacred Sun HRL batteries adopt new appearance and constructure design, automatically welding+throug 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

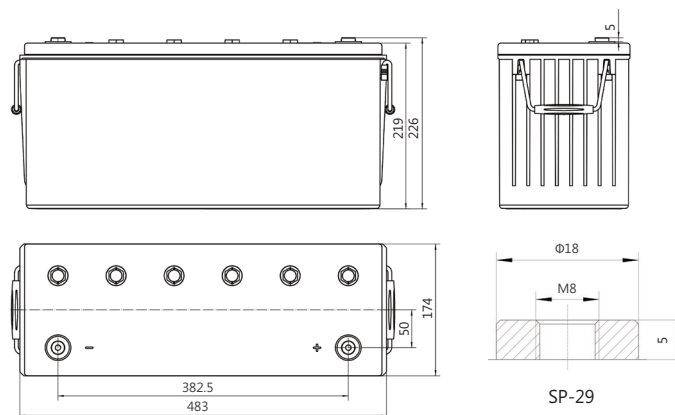
### Applications

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

### Standards

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

### Drawing



### Specifications

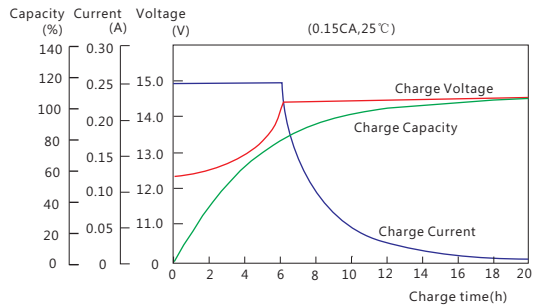
Battery Model	HRL12-570W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (88.2A, 1.70V)	10HR(14.2A, 1.80V)
	730W	570W	88.2	142
Dimensions (mm)	Length	Width	Height	Total Height
	483	174	219	226
Approx. Weight (kg)	48.2			
Reference Internal Resistance (mΩ)	2.1 ( fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1700			
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: 35.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4500			

## Discharge Data

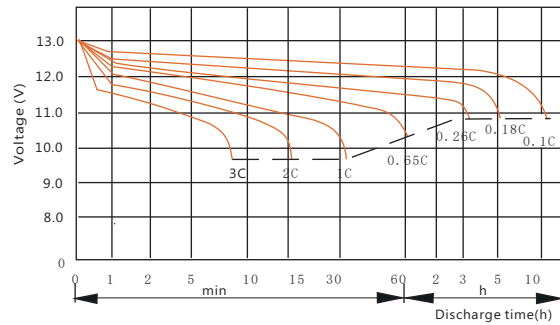
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	960	730	580	465	397	328	257	176	150	120	83.6	64.6	53.4	46.0	35.8	30.0
1.65	900	725	575	460	393	325	254	174	149	119	83.2	64.3	53.0	45.8	35.7	29.8
1.67	870	720	570	456	388	322	252	173	148	118	82.8	64.0	52.8	45.6	35.5	29.7
1.70	850	690	550	450	384	318	248	170	147	117	82.4	63.7	52.6	45.4	35.3	29.5
1.75	810	670	535	437	373	310	243	167	144	115	81.3	62.8	52.0	44.8	34.8	29.0
1.80	770	640	500	420	360	296	234	162	140	113	80.0	61.8	51.2	44.2	34.3	28.7

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	550	430	326	257	215	175	135	91.2	77.8	61.8	43.0	33.3	27.4	23.5	18.2	15.2
1.65	515	422	320	252	212	173	133	90.2	77.0	61.2	42.7	33.0	27.0	23.3	18.1	15.1
1.67	500	415	316	248	208	170	132	89.2	76.3	60.7	42.4	32.8	27.0	23.2	18.0	15.0
1.70	490	405	310	244	206	167	130	88.2	75.4	60.0	42.0	32.5	26.7	23.0	17.8	14.9
1.75	450	384	296	234	197	162	125	85.2	73.4	58.6	41.2	31.8	26.2	22.5	17.5	14.6
1.80	420	360	280	222	187	154	116	81.2	71.0	56.8	40.0	31.0	25.6	22.0	17.0	14.2

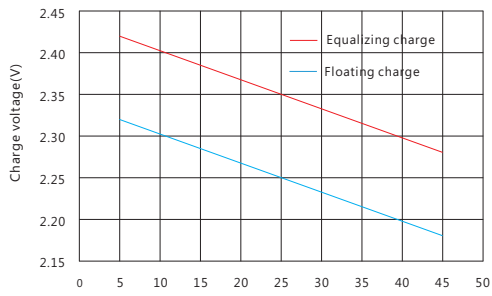
## Performance Curve



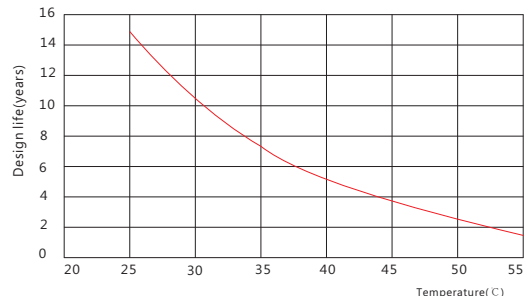
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

### Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC  
Tel: +86-537-4422313 Fax: +86-537-4411980  
Email: sales@sacredsun.cn

### Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong  
Email: admin.hk@sacredsun.hk

### Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555  
Email: admin.sg@sacredsun.sg

### Sacred Sun Europe SARL

Add: ZAE Fontaine, 33210 Fargues, France  
Email: admin.eu@sacredsun.eu

### Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE  
Email: admin.ae@sacredsun.ae

