

HRL Series

HRL12-500W 12V130Ah

Sacred Sun HRL batteries adopt new appearance and constructure design, automatically welding+through the partition welding+heat sealing technology, 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

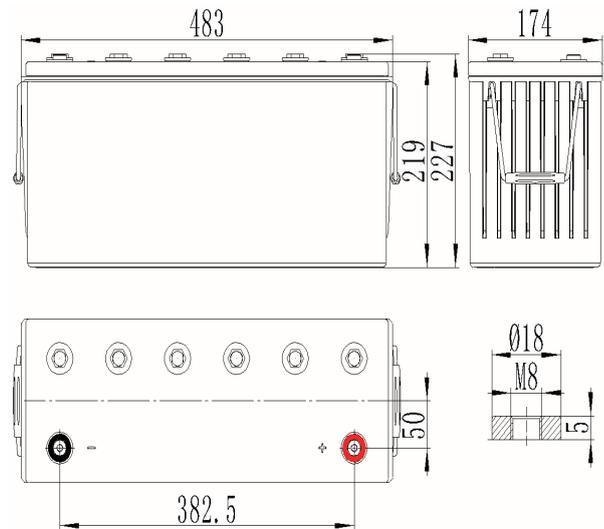
Applications

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

Standards

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

Drawing



Specifications

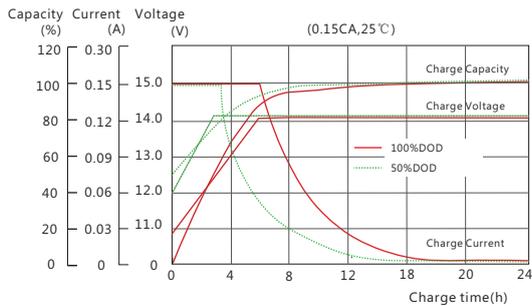
Battery Model	HRL12-500W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (81A, 1.70V)	10HR(13.0A, 1.80V)
	610W/cell	500W/cell	81	130
Dimensions (mm)	Length	Width	Height	Total Height
	483	174	219	227
Approx. Weight (kg)	43.8			
Reference Internal Resistance (mΩ)	2.6±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:32.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3700(For reference only)			

Discharge Data

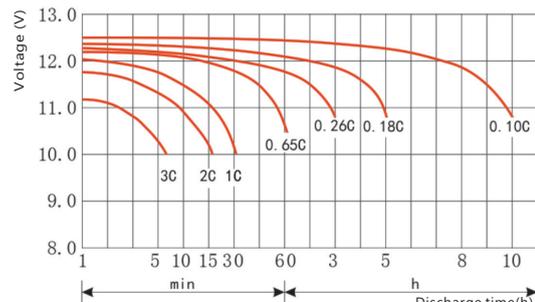
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	730	610	512	407	340	276	216	163	128	105	75.8	58.8	49.0	42.3	33.0	27.6
1.65	720	600	507	400	336	273	213	160	127	104	75.4	58.5	48.8	42.0	32.8	27.4
1.67	700	590	500	396	332	270	210	158	126	103	75.0	58.2	48.7	41.8	32.7	27.3
1.70	680	580	465	390	327	266	207	152	125	102	74.5	57.8	48.4	41.7	32.5	27.0
1.75	650	560	440	374	314	250	200	148	122	100	73.4	56.8	47.7	41.0	32.0	26.7
1.80	610	490	406	356	300	215	172	140	118	98.4	72.0	55.8	46.8	40.4	31.4	26.2

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	400	326	266	224	185	147	114	84.6	66.6	54.4	39.0	30.3	25.2	21.7	16.8	14.0
1.65	385	318	260	220	182	145	112	83.4	65.8	53.8	38.7	30.0	25.0	21.5	16.7	13.8
1.67	370	310	255	216	178	143	110	82.4	65.0	53.3	38.4	29.7	24.8	21.3	16.5	13.7
1.70	360	302	248	210	175	140	108	81.0	64.2	52.7	38.0	29.4	24.6	21.0	16.4	13.6
1.75	330	280	233	200	166	134	103	78.0	62.2	51.2	37.0	28.8	24.0	20.7	16.0	13.4
1.80	300	256	216	187	156	115	92.5	74.5	59.8	49.4	36.0	28.0	23.4	20.2	15.6	13.0

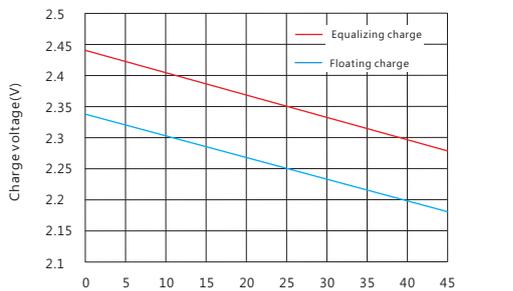
Performance Curve



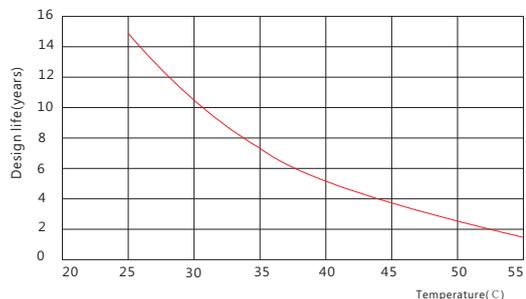
Charge performance



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

