

HRL Series

HRL12-500W 12V130Ah

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

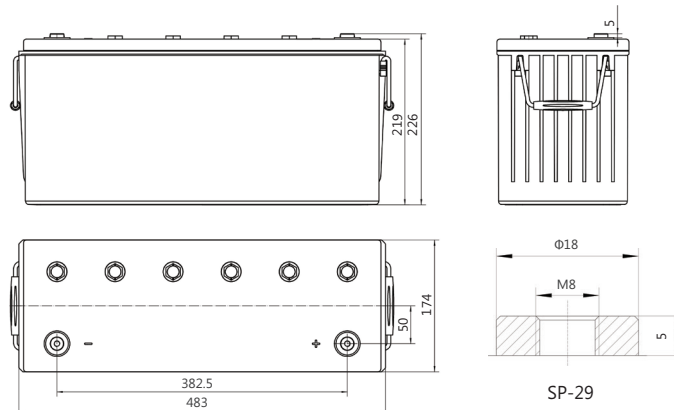
Applications

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

Standards

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

Drawing



Specifications

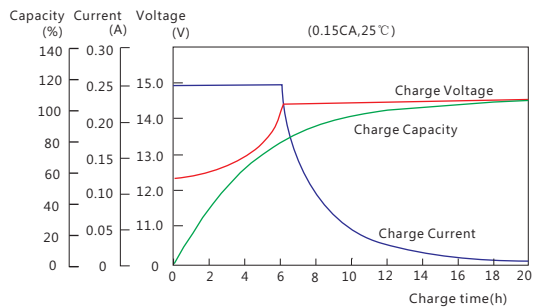
Battery Model	HRL12-500W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (81A, 1.70V)	10HR(13.0A, 1.80V)
	620	500	81	130
Dimensions (mm)	Length	Width	Height	Total Height
	483	174	219	226
Approx. Weight (kg)	43.8			
Reference Internal Resistance (mΩ)	2.6 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1500			
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			

Discharge Data

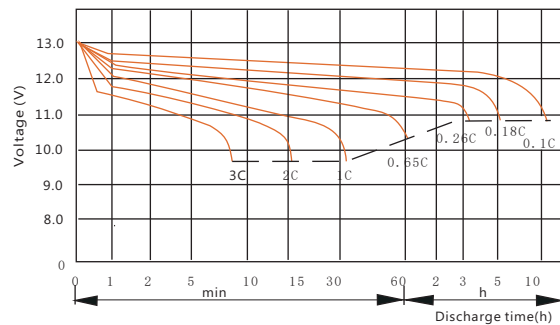
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	820	620	517	407	340	276	216	163	128	105	75.8	58.8	49.0	42.3	33.0	27.6
1.65	800	606	507	400	336	273	213	160	127	104	75.4	58.5	48.8	42.0	32.8	27.4
1.67	780	600	500	396	332	270	210	158	126	103	75.0	58.2	48.7	41.8	32.7	27.3
1.70	760	580	465	390	327	266	207	152	125	102	74.5	57.8	48.4	41.7	32.5	27.0
1.75	730	560	440	374	314	250	200	148	122	100	73.4	56.8	47.7	41.0	32.0	26.7
1.80	690	530	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	480	366	286	224	185	147	114	84.6	66.6	54.4	39.0	30.3	25.2	21.7	16.8	14.0
1.65	465	358	280	220	182	145	112	83.4	65.8	53.8	38.7	30.0	25.0	21.5	16.7	13.8
1.67	450	350	275	216	178	143	110	82.4	65.0	53.3	38.4	29.7	24.8	21.3	16.5	13.7
1.70	440	342	268	210	175	140	108	81.0	64.2	52.7	38.0	29.4	24.6	21.0	16.4	13.6
1.75	410	320	253	200	166	134	103	78.0	62.2	51.2	37.0	28.8	24.0	20.7	16.0	13.4
1.80	380	296	236	187	156	126	97.5	74.5	59.8	49.4	36.0	28.0	23.4	20.2	15.6	13.0

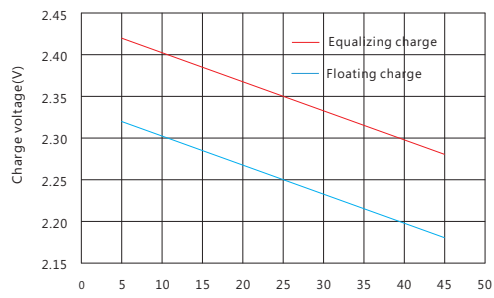
Performance Curve



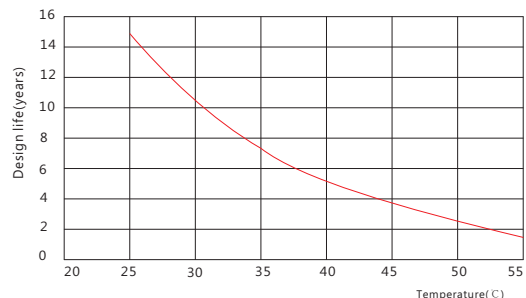
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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