

HRL Series

HRL12-820W 12V230Ah

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

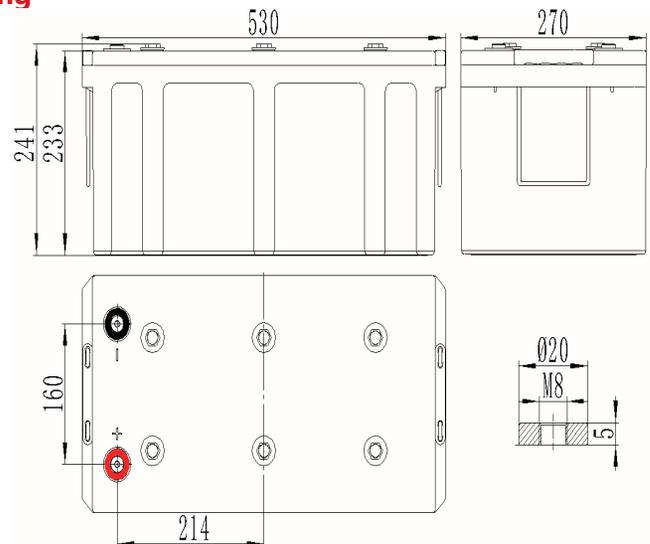
Applications

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

Standards

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

Drawing



Specifications

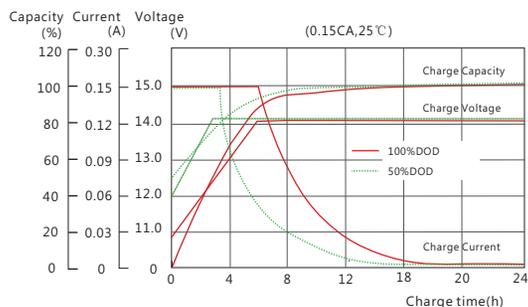
Battery Model	HRL12-820W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (140A, 1.70V)	10HR(23A, 1.80V)
	920W/cell	820W/cell	140	230
Dimensions (mm)	Length	Width	Height	Total Height
	530	270	233	241
Approx. Weight (kg)	75.3			
Reference Internal Resistance (mΩ)	1.8±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:57.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	6000(For reference only)			

Discharge Data

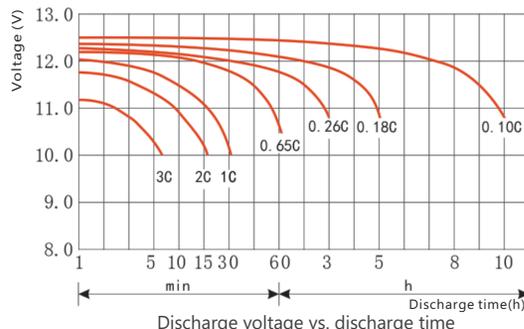
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	1150	920	830	703	593	487	362	278	210	172	127	99.7	84.2	73.2	57.3	47.3
1.65	1140	910	825	693	587	484	360	276	208	171	126	99.4	84.1	73.1	57.2	47.2
1.67	1100	900	820	685	582	480	358	275	206	170	125	99.0	84.0	73.0	57.1	47.1
1.70	1060	880	790	673	575	475	356	273	207	168	124	98.7	83.8	72.8	57.0	47.0
1.75	1020	840	760	647	558	464	350	270	205	167	122	97.7	83.4	72.4	56.6	46.7
1.80	964	780	690	616	536	450	343	265	200	165	118	96.6	82.8	72.0	56.3	46.4

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	660	535	450	378	318	260	190	145	109	88.8	65.3	51.3	43.2	37.4	29.2	24.0
1.65	620	520	440	373	314	257	188	144	108	88.0	64.6	50.8	43.0	37.2	29.0	23.9
1.67	590	508	433	367	310	254	187	143	107	87.5	64.0	50.6	42.8	37.0	28.8	23.8
1.70	570	493	423	360	305	250	185	140	106	86.7	63.4	50.3	42.6	36.8	28.7	23.7
1.75	540	457	400	344	294	240	180	138	104	84.8	61.7	49.4	42.0	36.4	28.4	23.4
1.80	500	415	375	324	280	232	175	134	100	82.8	59.8	48.3	41.4	35.9	27.8	23.0

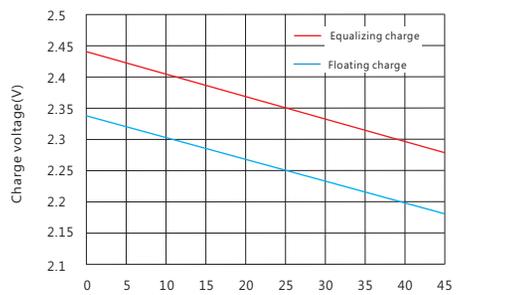
Performance Curve



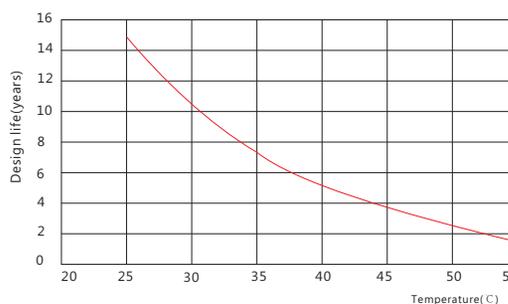
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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