

HRL Series

HRL12-910W 12V250Ah

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

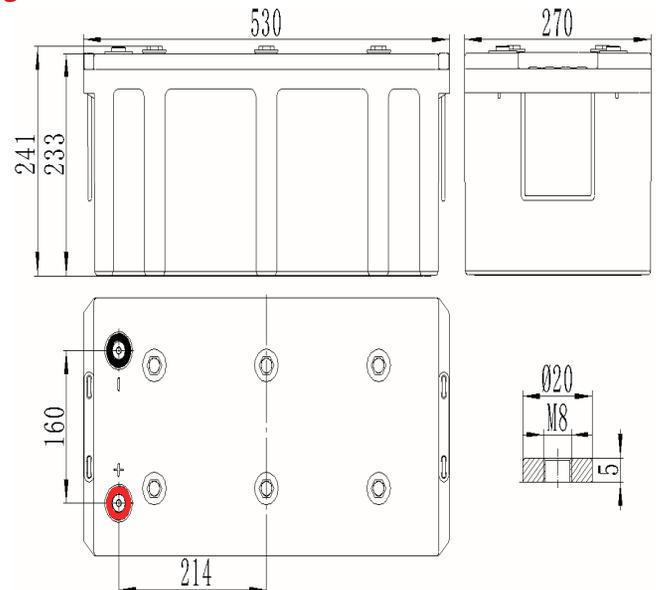
Applications

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

Standards

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

Drawing



Specifications

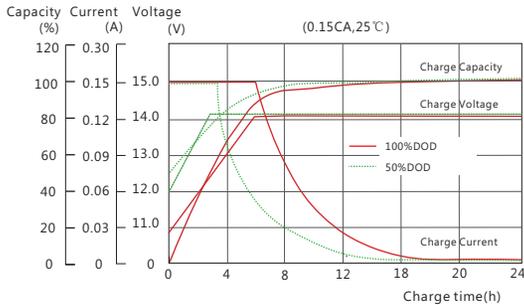
Battery Model	HRL12-910W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (157A, 1.70V)	10HR(25A, 1.80V)
	1050W/cell	910W/cell	157	250
Dimensions (mm)	Length	Width	Height	Total Height
	530	270	233	241
Approx. Weight (kg)	82			
Reference Internal Resistance (mΩ)	1.6±15%(full 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:62.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	6500(For reference only)			

Discharge Data

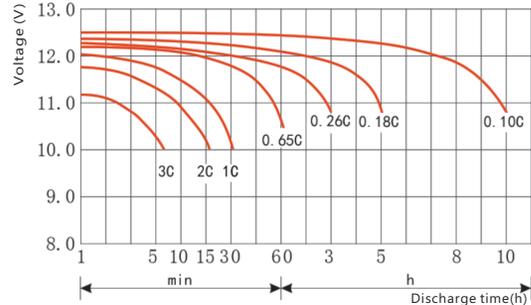
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	1260	1050	925	760	669	553	407	318	266	212	152	119	95.6	81.2	62.0	51.3
1.65	1250	1040	920	752	660	547	402	314	263	210	151	118	94.8	80.8	61.8	51.2
1.67	1240	1030	910	746	655	542	398	310	260	208	150	117	94.4	80.5	61.7	51.1
1.70	1220	1010	890	737	647	537	392	306	257	206	148	116	93.7	80.2	61.6	51.0
1.75	1180	980	850	717	628	522	376	294	246	200	145	113	92.0	79.3	61.3	50.7
1.80	1080	910	800	670	605	504	363	280	236	194	140	110	90.0	78.2	60.0	50.0

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	750	638	505	410	363	295	215	166	138	110	78.5	61.0	49.0	41.5	31.6	26.0
1.65	730	620	504	403	357	290	210	163	136	108	77.5	60.3	48.5	41.2	31.4	25.9
1.67	720	607	495	398	352	287	208	160	134	107	76.7	59.7	48.0	41.0	31.3	25.8
1.70	690	588	483	390	346	282	205	157	132	105	75.7	58.8	47.6	40.6	31.0	25.7
1.75	660	547	456	374	332	272	196	150	126	102	73.3	57.0	46.4	39.8	30.7	25.4
1.80	600	498	425	355	315	256	185	140	120	97.5	70.5	55.0	45.0	39.0	30.3	25.0

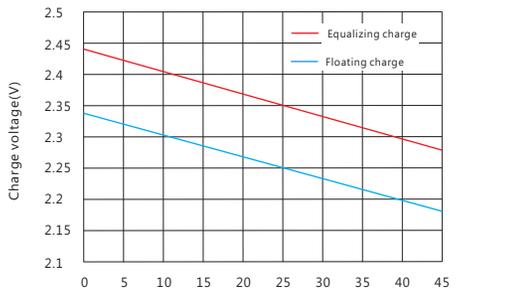
Performance Curve



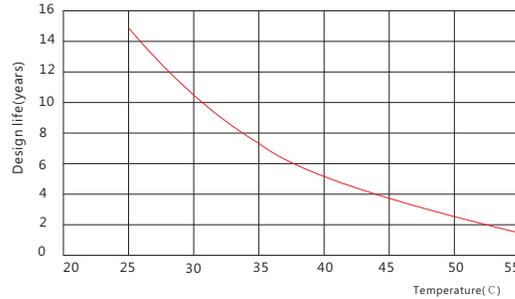
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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