

HRL Series

HRL12-770W 12V200Ah

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

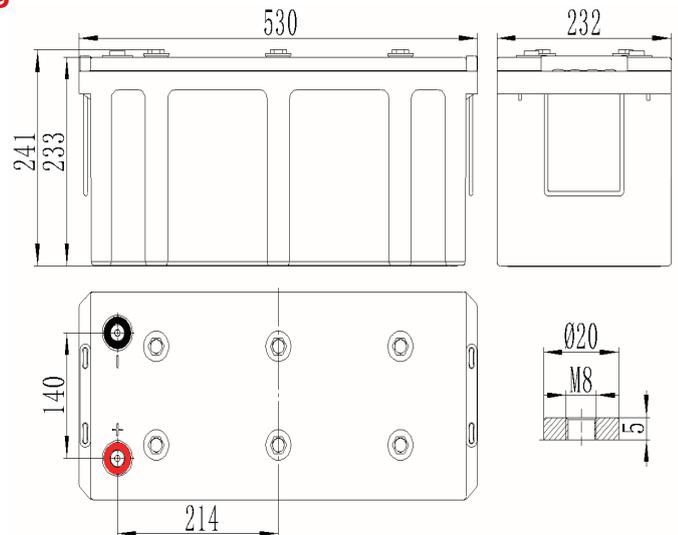
Applications

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

Standards

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

Drawing



Specifications

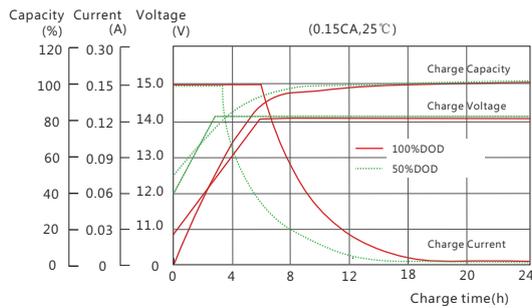
Battery Model	HRL12-770W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (123A, 1.70V)	10HR(20A, 1.80V)
	900W/cell	770W/cell	123	200
Dimensions (mm)	Length	Width	Height	Total Height
	530	232	233	241
Approx. Weight (kg)	67.5			
Reference Internal Resistance (mΩ)	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:50A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5800(For reference only)			

Discharge Data

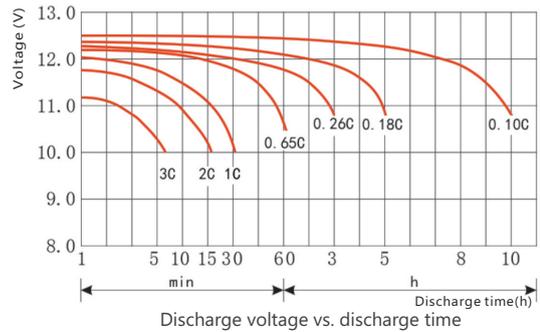
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	1080	900	780	637	534	442	330	243	195	160	120	92.0	74.8	64.8	50.3	41.4
1.65	1060	890	778	628	528	437	328	242	194	159	119	91.4	74.7	64.7	50.2	41.3
1.67	1030	870	770	620	524	433	326	240	192	158	118	91.0	74.5	64.5	50.0	41.2
1.70	1000	860	750	612	517	428	324	238	190	157	117	90.5	74.2	64.4	49.8	41.0
1.75	950	820	710	586	502	417	318	235	187	155	115	89.0	73.6	63.8	49.6	40.7
1.80	900	760	650	562	484	403	310	230	183	150	112	87.6	72.9	63.4	49.0	40.4

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	600	520	437	350	290	236	174	127	101	83.0	62.0	47.3	38.4	33.2	25.6	21.0
1.65	560	500	426	344	285	232	172	126	100	82.2	61.3	46.8	38.2	33.0	25.5	20.9
1.67	540	488	417	338	282	228	170	125	99.0	81.5	60.7	46.5	38.0	32.8	25.4	20.8
1.70	530	470	406	332	277	226	168	123	97.8	80.6	59.8	46.0	37.7	32.6	25.2	20.7
1.75	500	428	378	315	265	218	164	120	95.2	78.5	58.0	45.0	37.0	32.0	24.8	20.4
1.80	470	390	337	296	252	207	158	116	92.0	76.0	56.0	43.8	36.4	31.6	24.4	20.0

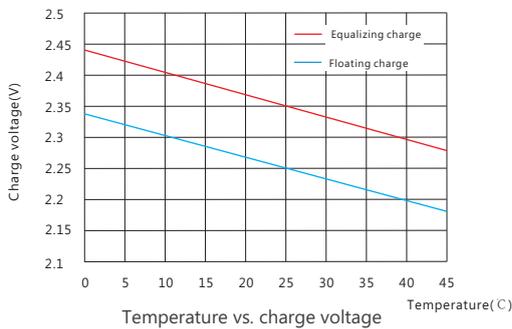
Performance Curve



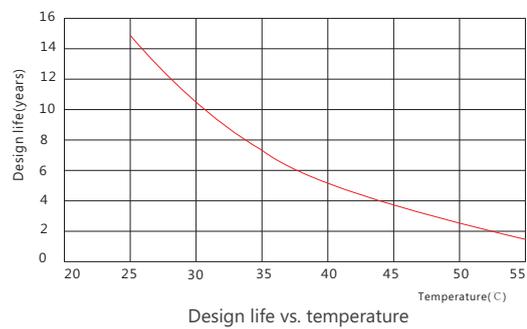
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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