

HRL Series

HRL12-660W 12V190Ah

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

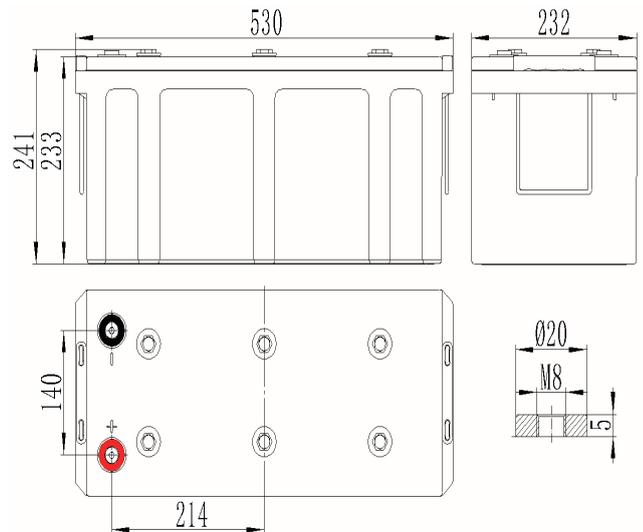
Applications

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

Standards

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

Drawing



Specifications

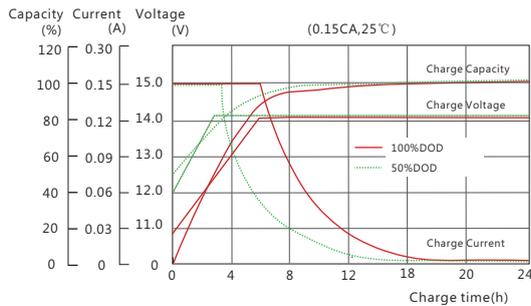
Battery Model	HRL12-660W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (117A, 1.70V)	10HR(19A, 1.80V)
	770W/cell	660W/cell	117	190
Dimensions (mm)	Length	Width	Height	Total Height
	530	232	233	241
Approx. Weight (kg)	63.4			
Reference Internal Resistance (mΩ)	2.0±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:47.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5200(For reference only)			

Discharge Data

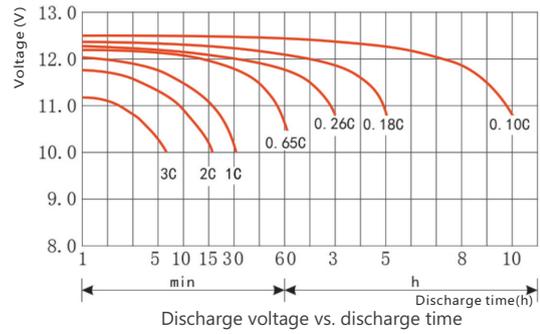
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	930	770	670	550	470	386	287	232	184	142	110	85.2	70.6	61.0	47.9	39.4
1.65	920	765	665	543	465	384	285	230	183	141	109	84.8	70.4	60.8	47.8	39.3
1.67	905	750	660	537	460	380	283	228	182	140	108	84.5	70.0	60.7	47.7	39.2
1.70	890	740	640	526	454	375	280	227	180	138	107	84.0	69.8	60.5	47.5	39.0
1.75	860	720	614	510	438	365	274	223	178	137	105	83.0	69.3	60.0	47.0	38.7
1.80	790	660	556	487	420	352	266	218	174	134	102	81.7	68.5	59.5	46.7	38.3

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	560	460	376	302	255	207	152	120	95.4	73.7	56.8	43.8	36.2	31.2	24.4	20.0
1.65	550	447	358	296	250	204	150	119	94.4	72.8	56.0	43.5	36.0	31.0	24.3	19.9
1.67	525	436	350	292	247	200	148	118	93.6	72.3	55.6	43.2	35.8	30.8	24.1	19.8
1.70	510	422	342	286	242	198	145	117	92.6	71.4	54.8	42.8	35.5	30.6	24.0	19.7
1.75	460	388	330	272	230	190	140	114	90.2	69.5	53.2	41.8	34.8	30.2	23.6	19.4
1.80	420	350	296	257	218	180	135	110	87.4	67.2	51.3	40.8	34.2	29.6	23.2	19.0

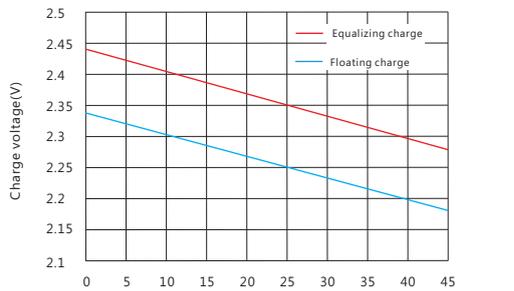
Performance Curve



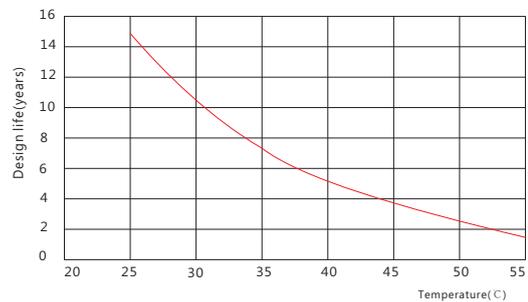
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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