

HRL Series

HRL12-440W 12V98Ah

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

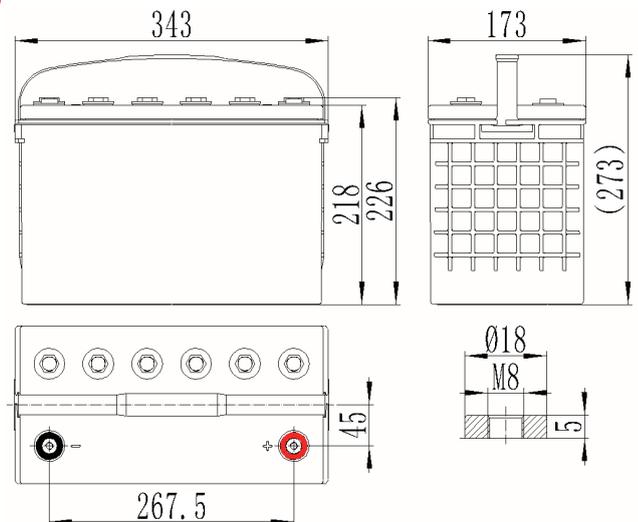
Applications

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

Standards

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

Drawing



Specifications

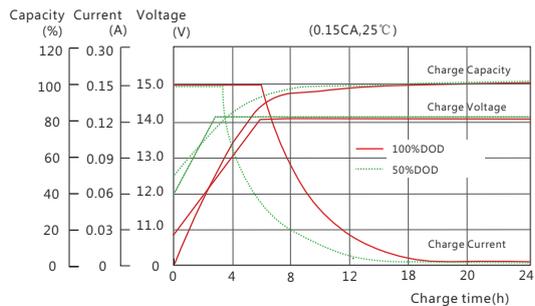
Battery Model	HRL12-440W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (64.2A, 1.70V)	10HR(9.8A, 1.80V)
	500W/cell	440W/cell	64.2	98
Dimensions (mm)	Length	Width	Height	Total Height
	343	173	218	226
Approx. Weight (kg)	33			
Reference Internal Resistance (mΩ)	2.6±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:24.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4200(For reference only)			

Discharge Data

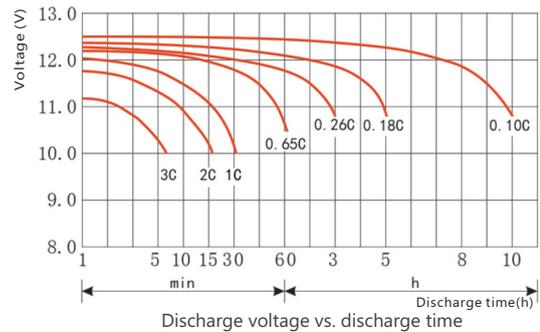
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	640	500	450	360	300	245	188	130	107	83.0	59.0	45.4	37.8	32.6	25.8	21.2
1.65	620	495	445	354	296	240	186	128	106	82.3	58.6	45.0	37.6	32.4	25.6	21.0
1.67	610	490	440	348	290	238	183	126	105	81.7	58.2	44.7	37.4	32.2	25.5	20.8
1.70	600	480	420	343	286	234	180	124	103	81.0	57.7	44.3	37.0	31.8	25.2	20.6
1.75	580	465	400	327	272	224	173	120	100	79.2	56.4	43.3	36.3	31.2	24.7	20.3
1.80	540	430	365	307	256	212	164	114	96.5	77.0	55.0	42.0	35.3	30.5	24.0	19.8

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	320	284	238	198	163	130	99.3	67.8	55.3	42.8	30.4	23.4	19.4	16.7	13.2	10.8
1.65	315	277	232	194	160	128	97.4	66.5	54.5	42.4	30.0	23.0	19.2	16.5	13.0	10.7
1.67	310	270	230	190	157	126	95.8	65.5	53.8	42.0	29.8	22.8	19.0	16.4	12.8	10.6
1.70	300	260	224	186	153	124	93.7	64.2	52.8	41.4	29.4	22.6	18.8	16.2	12.7	10.5
1.75	280	248	210	175	144	117	88.8	61.2	50.8	40.2	28.6	21.8	18.3	15.7	12.4	10.2
1.80	260	228	190	162	133	108	83.3	57.7	48.5	38.7	27.5	21.0	17.6	15.2	12.0	9.8

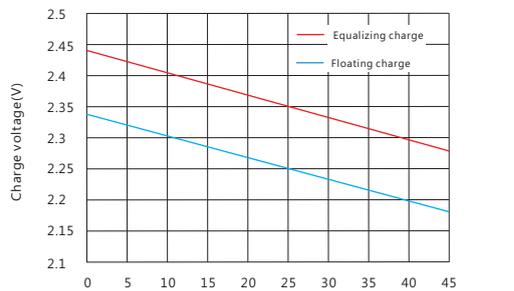
Performance Curve



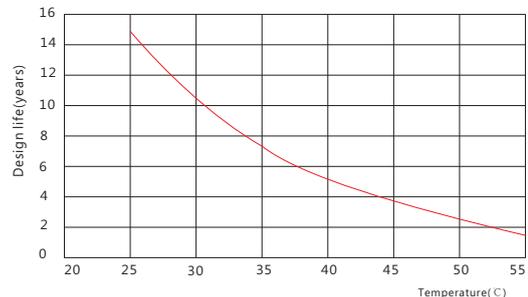
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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