

HRL Series

HRL12-475W 12V115Ah

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

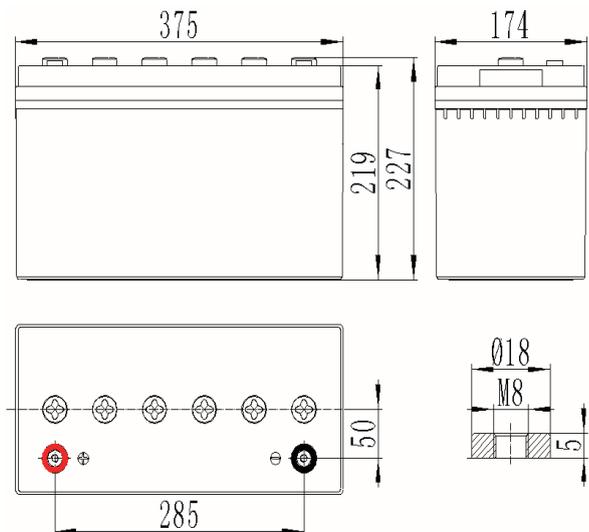
Applications

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

Standards

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

Drawing



Specifications

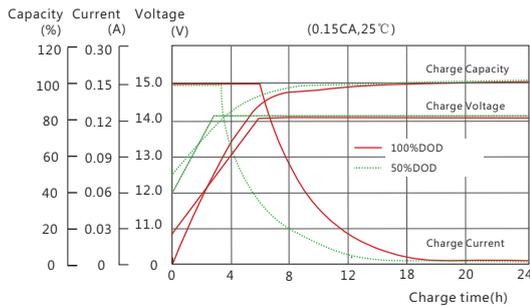
Battery Model	HRL12-475W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (72A, 1.70V)	10HR(11.5A, 1.80V)
	546W/cell	475W/cell	72	115
Dimensions (mm)	Length	Width	Height	Total Height
	375	174	219	227
Approx. Weight (kg)	38.5			
Reference Internal Resistance (mΩ)	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:28.75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3600(For reference only)			

Discharge Data

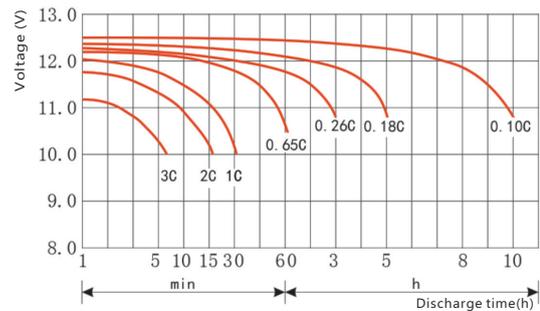
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	650	546	485	380	314	257	198	145	117	96.4	68.0	52.5	43.8	37.8	29.8	24.7
1.65	642	540	480	374	308	254	196	143	116	95.6	67.6	52.2	43.6	37.6	29.7	24.5
1.67	636	530	475	366	304	252	193	142	115	94.8	67.2	51.8	43.4	37.4	29.6	24.3
1.70	613	520	440	362	298	247	190	140	114	94.0	66.7	51.5	43.0	37.0	29.4	24.2
1.75	590	500	420	347	285	238	183	135	110	91.8	65.5	50.5	42.3	36.5	28.8	23.7
1.80	555	450	390	328	268	206	165	130	108	89.3	64.0	49.4	41.5	35.8	28.2	23.2

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	354	313	254	210	170	137	105	75.5	60.8	49.8	35.0	27.0	22.5	19.3	15.2	12.5
1.65	346	306	248	205	167	135	103	74.3	60.0	49.3	34.7	26.7	22.3	19.2	15.1	12.4
1.67	340	300	243	200	164	133	100	73.3	59.4	48.8	34.4	26.5	22.0	19.0	15.0	12.3
1.70	330	292	237	197	160	130	99.0	72.0	58.5	48.0	34.0	26.2	21.8	18.8	14.8	12.2
1.75	300	274	222	185	150	124	94.2	69.0	56.4	46.6	33.0	25.5	21.3	18.4	14.5	11.8
1.80	270	253	205	173	140	110	84.6	65.4	54.0	44.8	32.0	24.7	20.7	17.8	14.0	11.5

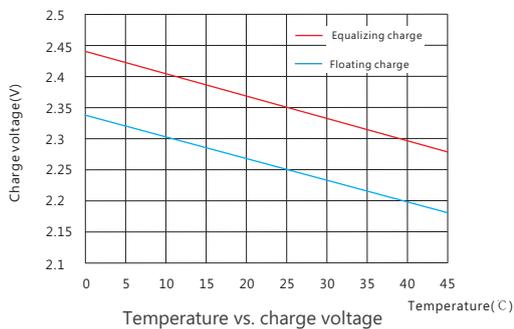
Performance Curve



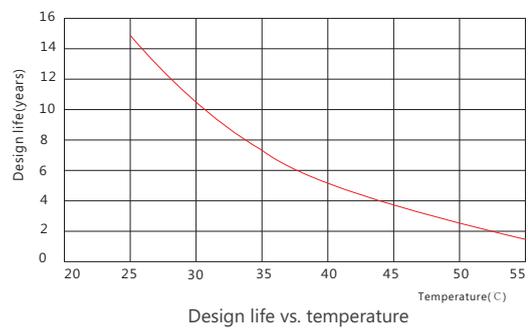
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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