

HRL Series

HRL12-475W 12V115Ah

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

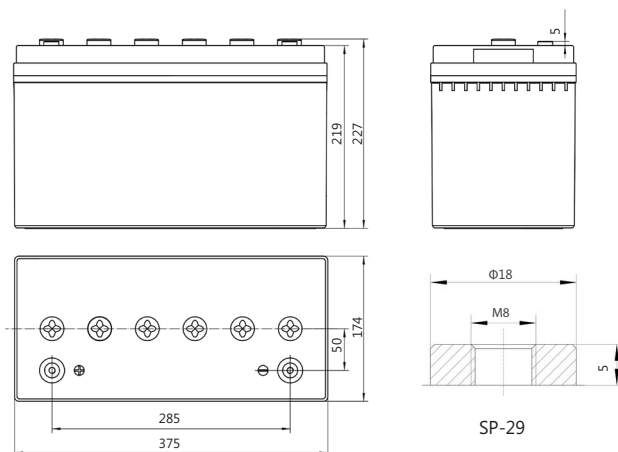
Applications

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

Standards

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

Drawing



Specifications

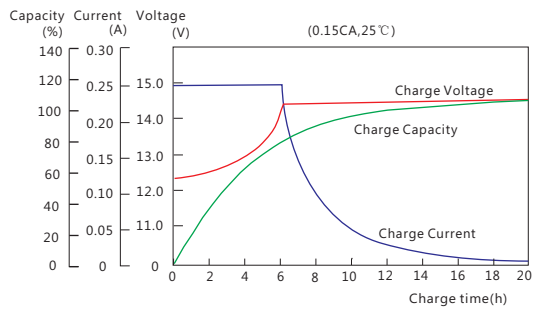
Battery Model	HRL12-475W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (72A, 1.70V)	10HR(11.5A, 1.80V)
	597W/cell	475/cell	72Ah	115
Dimensions (mm)	Length	Width	Height	Total Height
	375	174	219	227
Approx. Weight (kg)	37.0			
Reference Internal Resistance (mΩ)	3.0 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1320			
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			

Discharge Data

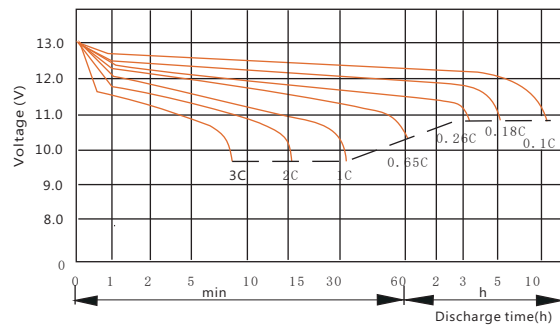
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	770	597	490	380	314	257	199	145	117	96.4	68.1	52.5	43.9	37.8	29.9	24.7
1.65	758	588	482	374	309	254	196	143	116	95.6	67.6	52.2	43.6	37.6	29.7	24.5
1.67	749	580	475	369	304	251	193	142	115	94.9	67.2	51.9	43.4	37.4	29.6	24.3
1.70	736	570	466	362	299	247	190	140	114	94.0	66.7	51.5	43.1	37.1	29.4	24.2
1.75	707	546	445	347	285	238	183	135	111	91.9	65.5	50.5	42.3	36.5	28.8	23.7
1.80	672	516	419	328	269	226	174	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	453	343	274	210	170	137	105	75.5	60.9	49.9	35.1	27.0	22.5	19.3	15.2	12.5
1.65	444	336	268	205	167	135	103	74.3	60.0	49.3	34.7	26.7	22.3	19.1	15.1	12.4
1.67	437	330	263	201	164	133	101	73.3	59.4	48.8	34.4	26.5	22.1	19.0	15.0	12.3
1.70	427	322	257	197	160	130	99.0	72.0	58.5	48.1	34.0	26.2	21.9	18.8	14.8	12.2
1.75	406	304	242	185	151	124	94.2	69.0	56.4	46.6	33.1	25.5	21.3	18.4	14.5	11.9
1.80	381	283	225	173	140	116	88.6	65.4	54.1	44.9	32.1	24.7	20.7	17.8	14.0	11.5

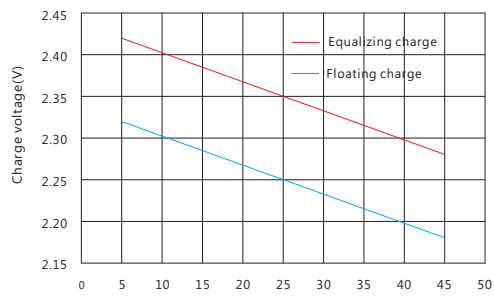
Performance Curve



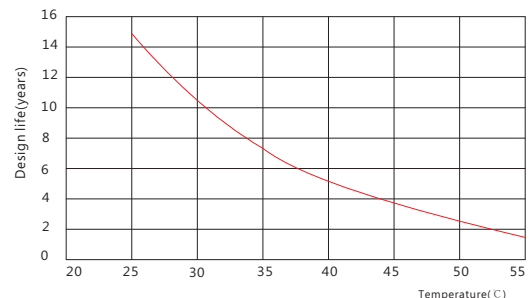
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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