

HRL Series

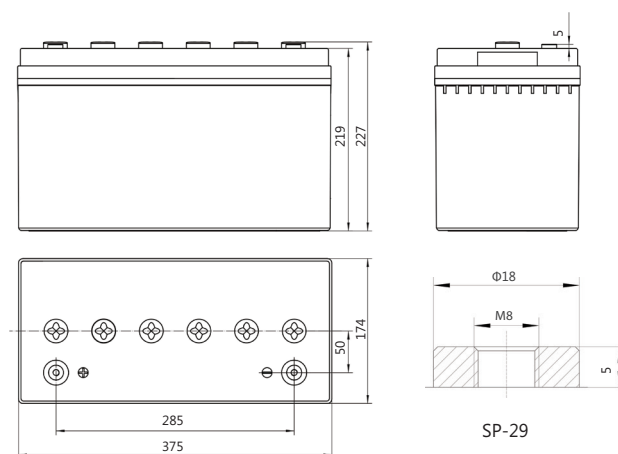
HRL12-475W 12V115Ah

Sacred Sun HRL batteries adopt new appearance and constructure design, automatic 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 formula 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

Drawing



Applications

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

Standards

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

Specifications

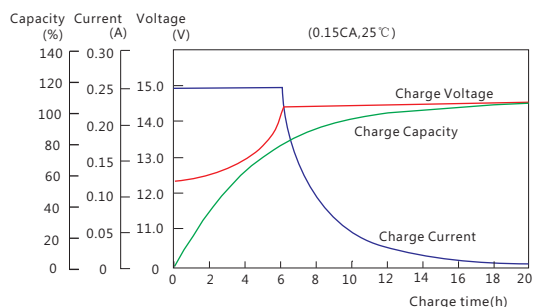
Battery Model	HRL12-475W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (72A, 1.70V)	10HR(11.5A, 1.80V)
	584W/cell	475W/cell	72	115
Dimensions (mm)	Length	Width	Height	Total Height
	375	174	219	227
Approx. Weight (kg)	38.5			
Reference Internal Resistance (mΩ)	2.6±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
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

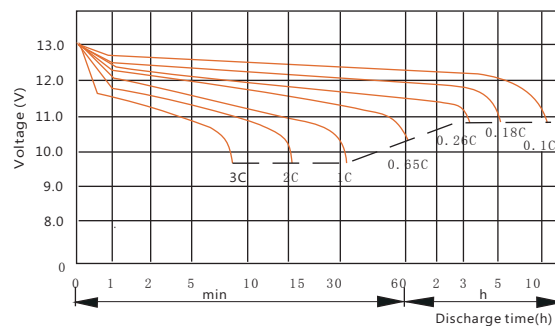
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	672	584	490	380	314	257	198	145	117	96.4	68.0	52.5	43.8	37.8	29.8	24.7
1.65	662	576	482	374	308	254	196	143	116	95.6	67.6	52.2	43.6	37.6	29.7	24.5
1.67	656	570	475	366	304	252	193	142	115	94.8	67.2	51.8	43.4	37.4	29.6	24.3
1.70	633	550	440	362	298	247	190	140	114	94.0	66.7	51.5	43.0	37.0	29.4	24.2
1.75	610	530	420	347	285	238	183	135	110	91.8	65.5	50.5	42.3	36.5	28.8	23.7
1.80	575	500	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	394	343	274	210	170	137	105	75.5	60.8	49.8	35.0	27.0	22.5	19.3	15.2	12.5
1.65	386	336	268	205	167	135	103	74.3	60.0	49.3	34.7	26.7	22.3	19.2	15.1	12.4
1.67	380	330	263	200	164	133	100	73.3	59.4	48.8	34.4	26.5	22.0	19.0	15.0	12.3
1.70	370	322	257	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	340	304	242	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	310	283	225	173	140	116	88.6	65.4	54.0	44.8	32.0	24.7	20.7	17.8	14.0	11.5

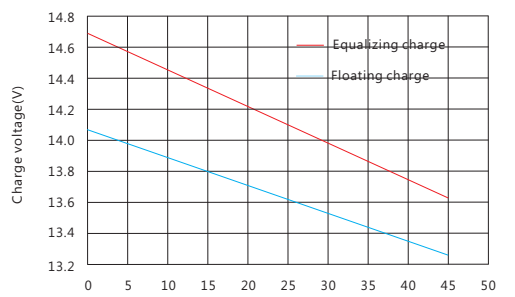
Performance Curve



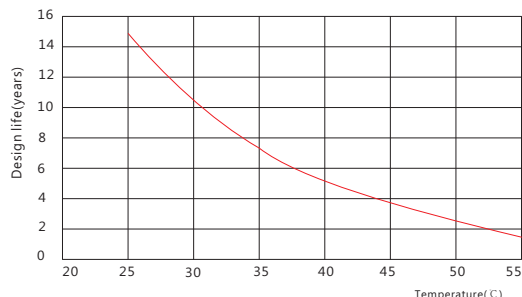
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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