

HRL Series

HRL12-320W 12V75Ah

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

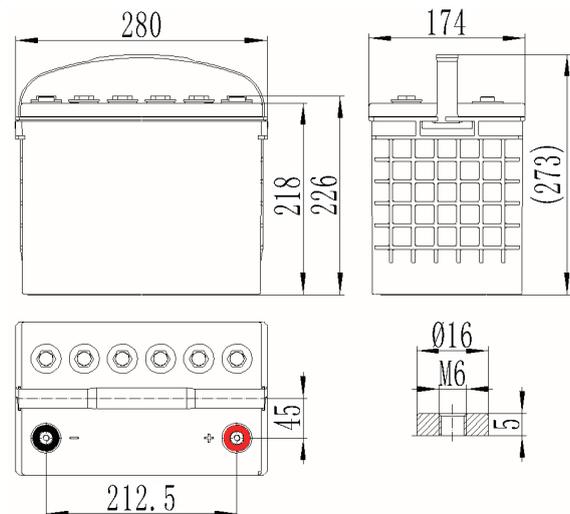
Applications

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

Standards

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

Drawing



Specifications

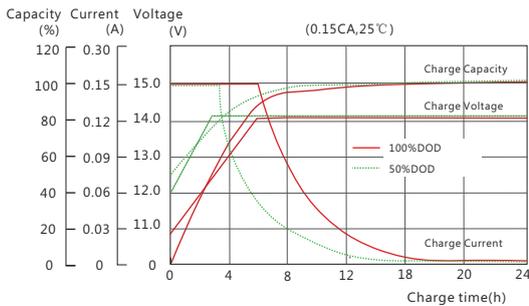
Battery Model	HRL12-320W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (48A, 1.70V)	10HR(7.5A, 1.80V)
	385W/cell	320W/cell	48	75
Dimensions (mm)	Length	Width	Height	Total Height
	280	174	218	226
Approx. Weight (kg)	26.0			
Reference Internal Resistance (mΩ)	3.3±15%(full 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:18.75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2900(For reference only)			

Discharge Data

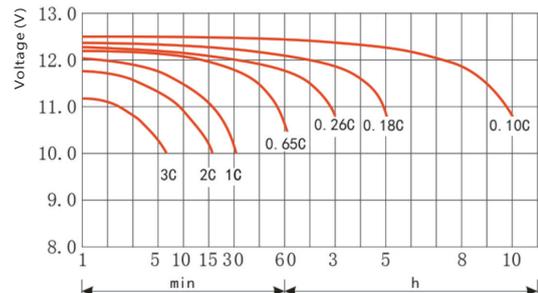
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	500	385	330	267	223	182	140	98.0	79.7	63.2	45.6	35.5	29.8	25.8	20.4	16.8
1.65	485	380	325	260	218	178	138	96.0	78.4	62.5	45.0	35.0	29.5	25.5	20.2	16.6
1.67	470	375	320	255	214	176	136	95.0	77.3	61.8	44.7	34.8	29.2	25.2	20.0	16.4
1.70	450	360	310	248	208	172	132	93.0	75.8	61.0	44.0	34.3	28.8	24.8	19.7	16.2
1.75	430	340	286	230	195	162	124	88.0	72.6	59.0	42.8	33.2	28.0	24.2	19.2	15.7
1.80	380	310	257	210	178	150	115	82.0	68.6	56.8	41.2	31.8	27.0	23.3	18.4	15.2

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	240	204	176	147	120	93.8	71.2	51.6	41.3	32.7	23.5	18.3	15.3	13.2	10.4	8.5
1.65	234	200	173	143	118	93.0	70.2	50.3	40.5	32.2	23.2	18.0	15.0	13.0	10.2	8.4
1.67	226	196	170	138	115	91.8	69.2	49.3	39.8	31.8	22.8	17.8	14.8	12.8	10.0	8.3
1.70	216	186	160	134	110	90.3	68.2	48.0	38.8	31.2	22.5	17.5	14.7	12.6	9.8	8.2
1.75	210	174	155	124	103	84.5	64.0	45.0	36.8	30.0	21.6	16.8	14.0	12.2	9.6	7.8
1.80	186	158	137	110	93.0	77.7	58.5	41.5	34.5	28.5	20.6	16.0	13.5	11.6	9.2	7.5

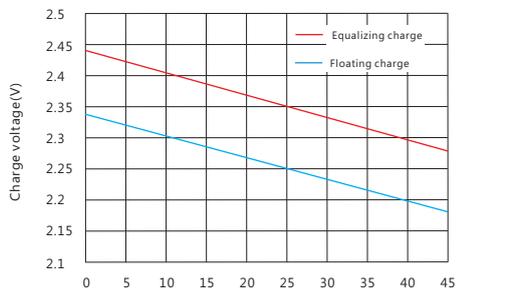
Performance Curve



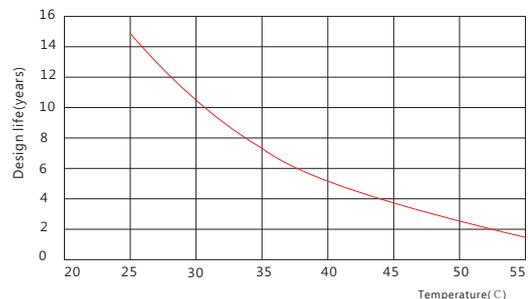
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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