

HRL Series

HRL12-520W 12V135Ah

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

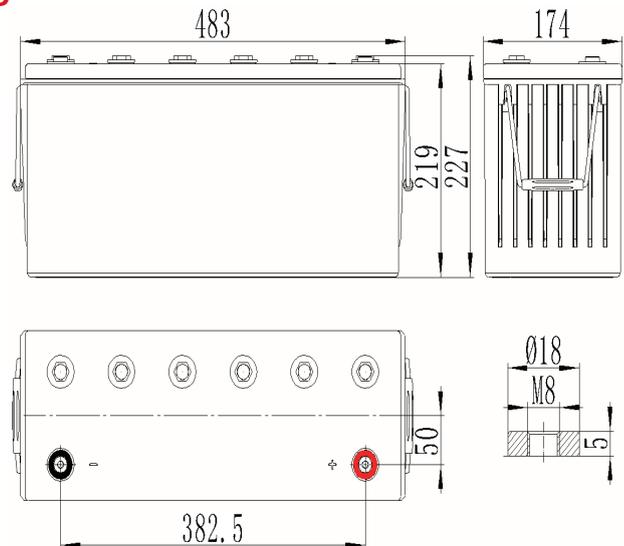
Applications

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

Standards

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

Drawing



Specifications

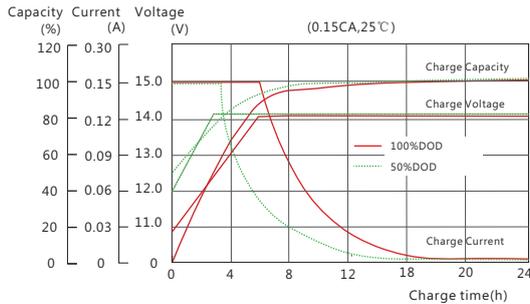
Battery Model	HRL12-520W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (84A, 1.70V)	10HR(13.5A, 1.80V)
	625W/cell	520W/cell	84	135
Dimensions (mm)	Length	Width	Height	Total Height
	483	174	219	227
Approx. Weight (kg)	45.6			
Reference Internal Resistance (mΩ)	2.3±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:33.75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4100(For reference only)			

Discharge Data

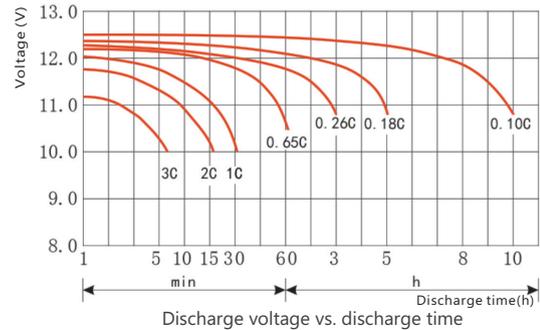
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	760	625	530	430	360	308	235	168	136	109	78.8	60.8	50.8	43.8	34.2	28.6
1.65	750	620	525	424	356	304	233	166	134	108	78.3	60.6	50.6	43.6	34.0	28.4
1.67	730	614	520	418	352	300	230	165	133	107	78.0	60.3	50.4	43.5	33.8	28.3
1.70	700	600	500	413	347	292	228	163	132	106	77.5	59.8	50.0	43.2	33.7	28.0
1.75	670	570	460	398	334	282	220	158	130	105	76.4	59.0	49.5	42.7	33.2	27.7
1.80	630	510	426	370	318	260	202	154	126	102	75.0	58.0	48.7	42.0	32.6	27.2

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	420	340	278	237	196	160	124	87.6	70.3	56.3	40.6	31.3	26.0	22.4	17.4	14.5
1.65	395	333	273	232	192	158	122	86.4	69.4	55.7	40.2	31.0	25.8	22.2	17.3	14.4
1.67	385	326	268	228	188	156	120	85.4	68.8	55.2	39.8	30.8	25.7	22.0	17.0	14.3
1.70	375	317	262	224	186	153	118	84.0	67.6	54.6	39.5	30.5	25.5	21.8	17.0	14.2
1.75	345	296	248	213	177	147	114	81.0	65.8	53.0	38.6	29.8	24.8	21.5	16.6	13.8
1.80	315	270	233	200	166	132	102	77.5	63.5	51.3	37.6	29.0	24.3	20.8	16.2	13.5

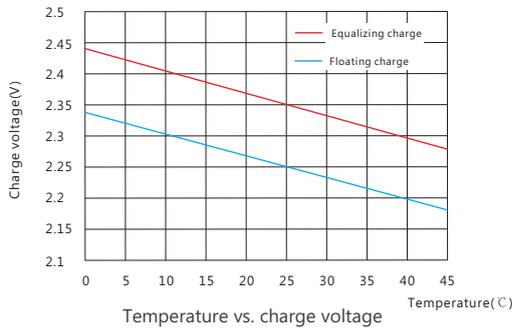
Performance Curve



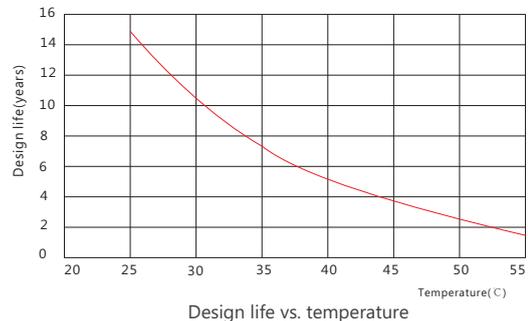
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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