

# HRL Series

## HRL12-700W 12V195Ah

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 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

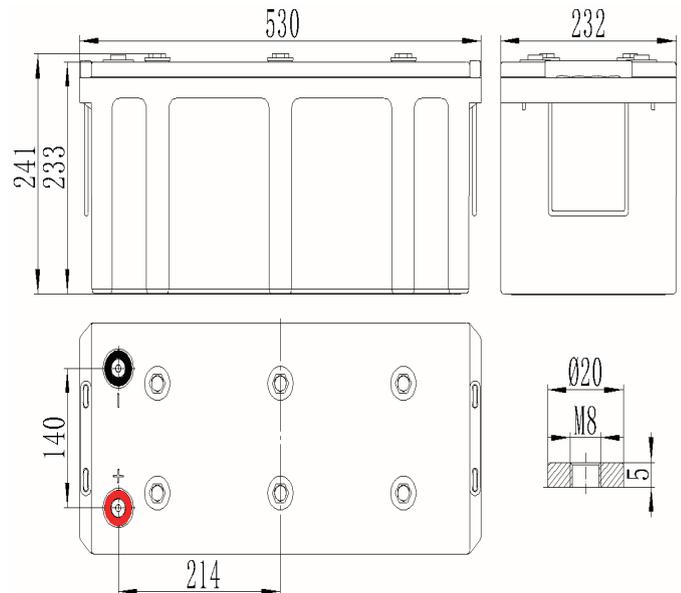
### Applications

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

### Standards

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

### Drawing



### Specifications

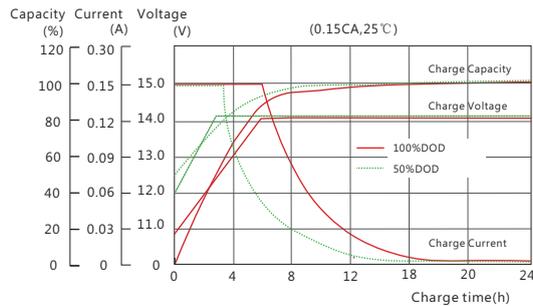
Battery Model	HRL12-700W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (120A, 1.70V)	10HR(19.5A, 1.80V)
	820W/cell	700W/cell	120	195
Dimensions (mm)	Length	Width	Height	Total Height
	530	232	233	241
Approx. Weight (kg)	64.8			
Reference Internal Resistance (mΩ)	2.0±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:48.75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5400(For reference only)			

## Discharge Data

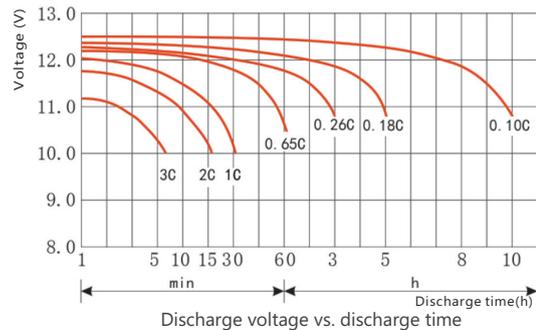
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	980	820	710	597	510	422	318	240	192	150	117	89.4	72.0	62.2	48.8	40.4
1.65	975	812	705	587	503	417	317	238	191	148	116	88.8	71.8	62.0	48.6	40.3
1.67	960	800	700	578	498	413	315	236	189	147	115	88.5	71.6	61.8	48.5	40.2
1.70	945	784	680	566	490	408	312	234	188	146	114	87.8	71.4	61.6	48.3	40.0
1.75	910	742	640	540	474	396	306	226	183	144	112	86.6	70.8	61.2	48.0	39.7
1.80	840	675	600	508	453	362	290	220	176	137	106	85.0	70.3	60.6	47.0	38.4

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	580	464	395	322	274	225	168	125	100	83.0	60.5	46.0	36.8	31.8	24.8	20.5
1.65	560	458	386	316	268	220	166	123	98.5	82.0	59.8	45.6	36.7	31.6	24.7	20.4
1.67	530	445	378	310	266	218	165	122	97.5	81.3	59.2	45.2	36.5	31.4	24.5	20.3
1.70	515	428	368	303	260	215	163	120	96.2	80.3	58.4	44.8	36.3	31.2	24.4	20.2
1.75	485	400	346	286	248	206	158	117	93.2	77.8	56.6	43.7	35.7	30.8	24.0	19.8
1.80	450	364	315	267	236	190	152	113	89.7	72.0	54.5	42.5	35.0	30.2	23.6	19.5

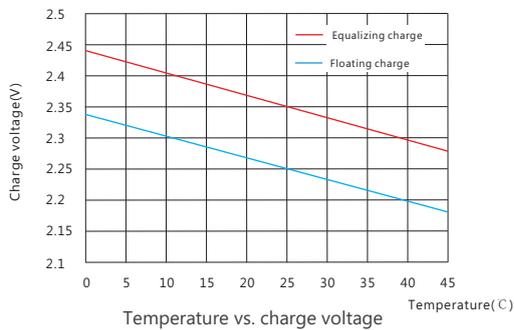
## Performance Curve



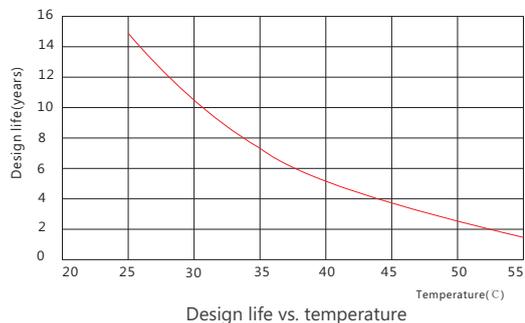
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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