

HRL Series

HRL12-380W 12V95Ah

Sacred Sun HRL batteries adopt new appearance and constructure design, automaticly welding+through the partition welding+heat sealing technoly, 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

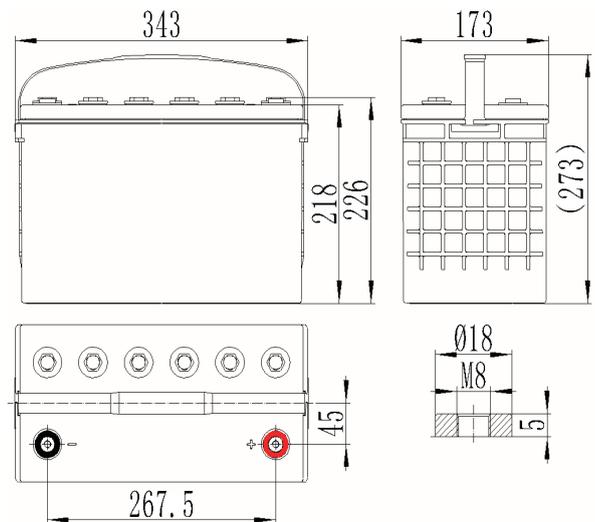
Applications

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

Standards

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

Drawing



Specifications

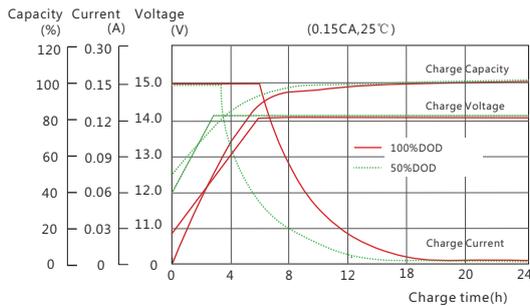
Battery Model	HRL12-380W			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (60A, 1.70V)	10HR(9.5A, 1.80V)
	440W/cell	380W/cell	60	95
Dimensions (mm)	Length	Width	Height	Total Height
	343	173	218	226
Approx. Weight (kg)	31.7			
Reference Internal Resistance (mΩ)	2.8±15%(full 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:23.75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3700(For reference only)			

Discharge Data

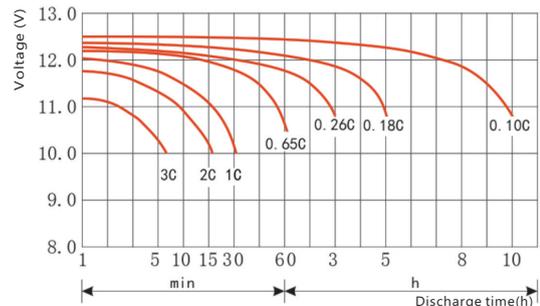
Constant Power Discharge Data (25°C, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	25	30	45	1	1.5	2	3	4	5	6	8	10
1.60	590	440	388	315	265	218	167	123	95.6	77.8	57.0	44.5	36.8	31.7	24.8	20.7
1.65	585	435	384	308	260	215	165	120	94.4	77.2	56.7	44.2	36.6	31.5	24.5	20.5
1.67	580	430	380	304	256	212	162	118	93.4	76.7	56.3	43.8	36.3	31.3	24.4	20.4
1.70	570	424	370	298	250	207	158	117	92.0	75.8	55.7	43.4	36.0	31.0	24.0	20.2
1.75	540	410	350	282	238	198	150	112	88.8	74.0	54.5	42.4	35.2	30.3	23.6	19.7
1.80	470	360	320	264	223	186	142	107	85.0	71.8	53.0	41.2	34.3	29.5	22.8	19.2

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	290	250	215	174	144	117	88.2	63.5	49.6	40.3	29.5	22.8	18.8	16.2	12.6	10.5
1.65	285	243	210	170	140	114	86.3	62.3	48.7	39.8	29.0	22.6	18.7	16.0	12.5	10.4
1.67	280	238	204	166	138	112	84.7	61.3	48.0	39.4	28.8	22.4	18.5	15.8	12.3	10.3
1.70	270	230	196	160	134	108	82.6	60.0	47.2	38.8	28.4	22.0	18.3	15.7	12.2	10.2
1.75	250	214	190	150	126	103	77.8	57.0	45.0	37.6	27.6	21.4	17.7	15.3	11.8	9.8
1.80	220	195	166	138	116	96.0	72.2	53.4	42.8	36.0	26.6	20.6	17.0	14.7	11.4	9.5

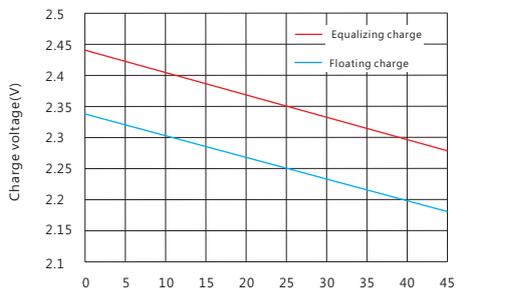
Performance Curve



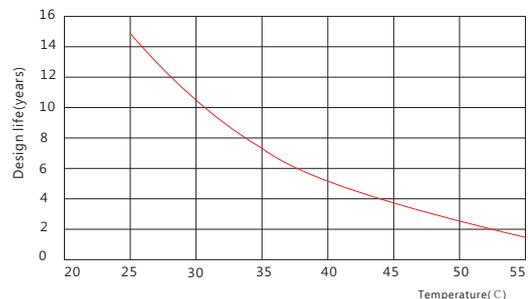
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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