

Advantages

- Very long life according to EUROBAT Classification
- More than 3000 cycles at 70% DOD
- Special negative active material formula, improve the charge acceptance ability, reduce the negative plate sulphation, more suitable for the partial state of charge (PSOC) application
- Modular design and installation, compact structure, saving the installation area and space, easy installation, convenient maintenance

Application

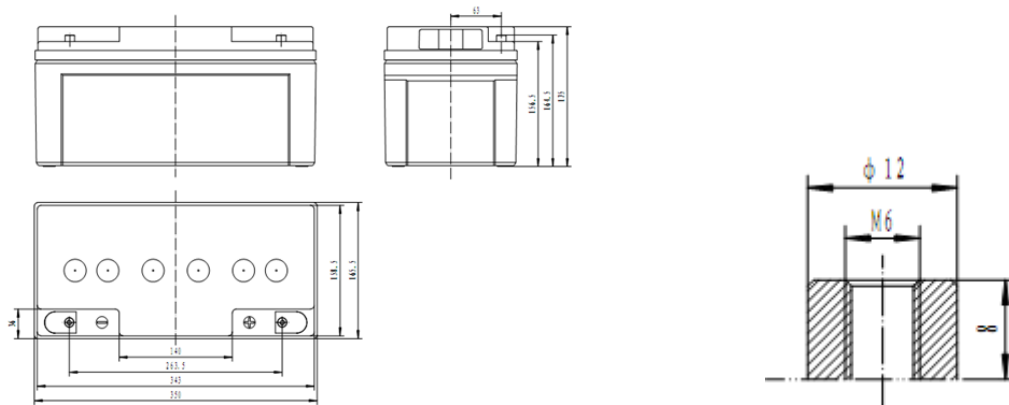
- Household energy storage system
- Solar and wind energy system
- Emergency system
- Other cycling systems

Standards

- IEC 60896-21/22: 2004
- IEC61427-2014
- Eurobat guide
- Installation compliant with EN50272-2



Drawing



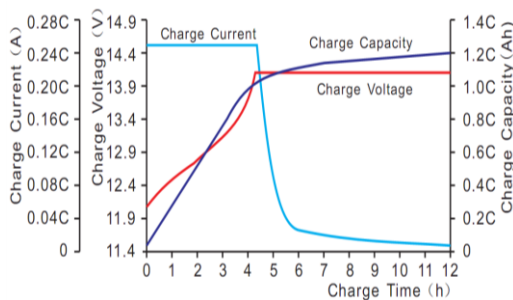
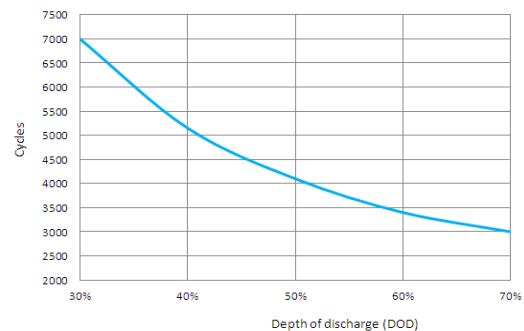
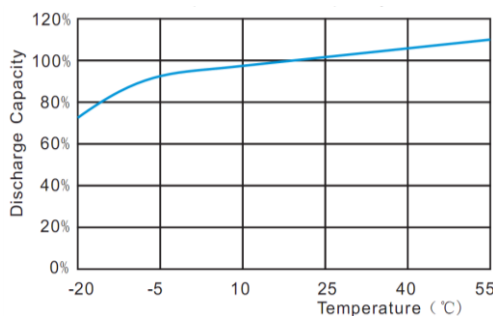
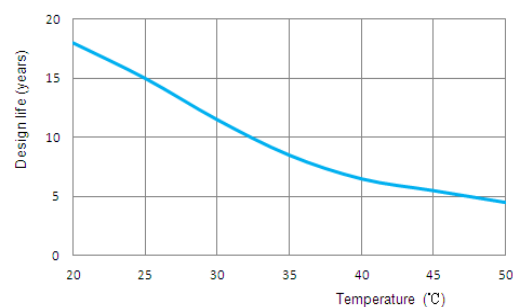
Specification

Battery Model	DCS12-50			
Design Life (Years, 25°C)	15			
Capacity(Ah, 25°C)	10HR(5.46A,1.80V)	5HR(10.6A,1.80V)	3HR(14.8A,1.80V)	100HR(0.627A,1.80V)
	54.6	53.0	44.4	62.7
Dimensions(mm)	Length	Width	Height	Total Height
	350	165.5	175	175
Approx. Weight (kg)	25.5			
Internal Resistance(mΩ)	4.7			
Short Circuit Current (A)	1500			
Self-Discharge(25°C)	≤1% per months			
Charge Voltage(V/cell, 25°C)	Cycle use		Float use	
	2.40(-4mV/°C), max charge current:20A		2.25(-4mV/°C)	

Discharge Data

Constant current discharge data (25°C , A)											
End voltage(V/cell)	1h	2h	3h	5h	8h	10h	20h	50h	100h	120h	240h
1.70	30.3	21.8	15.8	11.2	7.53	5.78	3.14	1.26	0.651	0.561	0.297
1.75	29.7	21.3	15.4	11.0	7.34	5.71	3.09	1.24	0.639	0.555	0.295
1.80	28.9	20.6	14.8	10.6	7.00	5.46	2.96	1.19	0.627	0.545	0.291
1.85	27.9	19.7	14.0	10.0	6.50	5.16	2.80	1.14	0.601	0.528	0.281
1.90	26.0	18.2	12.9	9.11	5.94	4.57	2.55	1.04	0.563	0.491	0.258
1.95	23.5	16.2	11.2	7.72	5.16	3.92	2.04	0.83	0.452	0.402	0.215

Constant power discharge data (25°C , W/cell)											
End voltage (V/cell)	1h	2h	3h	5h	8h	10h	20h	50h	100h	120h	240h
1.70	54.7	39.4	28.5	20.3	14.0	10.7	5.82	2.37	1.26	1.10	0.587
1.75	54.0	38.9	28.1	20.0	13.8	10.6	5.76	2.34	1.24	1.09	0.583
1.80	53.1	38.1	27.5	19.6	13.5	10.4	5.66	2.29	1.22	1.07	0.574
1.85	51.9	37.0	26.8	19.1	12.9	10.0	5.48	2.23	1.17	1.04	0.556
1.90	50.0	35.2	25.0	17.8	12.0	8.98	5.02	2.04	1.11	0.969	0.511
1.95	45.6	31.6	21.9	15.1	10.5	7.96	4.16	1.68	0.926	0.826	0.449

Performance Curve :

Charging characteristic

Cycle life vs. discharge depth

Temperature vs. capacity

Design life vs. temperature
Sacred Sun Power Sources Co., Ltd.

No.1 Shengyang Road, Qufu City, PRC

Website: www.sacredsun.com

Sacred Sun Asia Pacific

 GF, 14th Floor, Xinbaohui Building, Nantai

Boulevard, Nanshan, Shenzhen, PRC.

Sacred Sun Europe SPRL

Paul Dejaerlaan 4b, B 1060 Brussel,

Belgium

