

Sohigh BAT-1500AH-OPzV

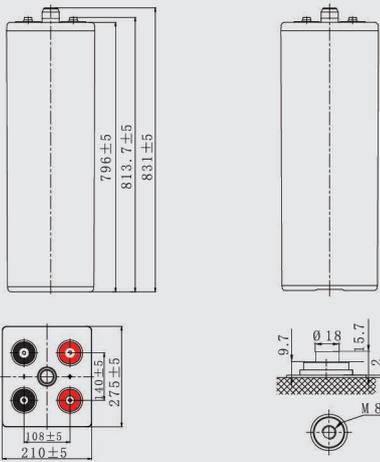
Solar OPzV Battery



Specifications

Rated Voltage	2V	
Nominal Capacity	1500Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	275±5mm(10.83 in.)
	Width	210±5mm(8.27 in.)
	Container Height	796±5mm(31.34 in.)
	Total Height	831±5mm(32.72 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1950.0 Ah	(100hr, 19.5A, 1.80V/cell)
	1500.0 Ah	(10hr, 150.0A, 1.80V/cell)
	1305.0 Ah	(5hr, 261.0A, 1.75V/cell)
	1146.0 Ah	(3hr, 382.0A, 1.75V/cell)
	834.0 Ah	(1hr, 834.0A, 1.65V/cell)
Max. Discharge Current (5s)	12000A	
Internal Resistance(25°C)	Approx.0.38mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	375.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	2.35~2.40V
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤ 3% per month at 25°C	

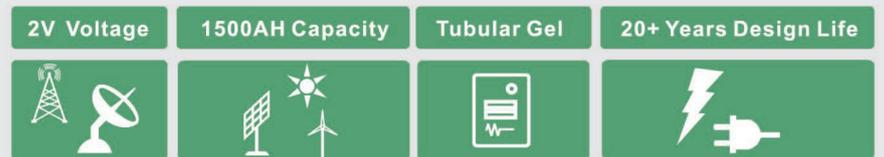
Dimensions (mm)



Solar & Wind applications parameters settings

Over voltage disconnect	2.45±0.01V/cell @ 20~25°C
Regulation/equalize voltage	2.40±0.01V/cell @ 20~25°C
Array reconnection voltage	2.25±0.005V/cell @ 20~25°C
Float voltage setting	2.27±0.005V/cell @ 20~25°C
Low voltage alarm voltage	1.95±0.005V/cell @ 20~25°C
Low voltage disconnect	1.90±0.005V/cell @ 20~25°C
Load reconnect voltage	2.09±0.01V/cell @ 20~25°C
Temp. compensate coefficient	-5mV/cell/°C

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Constant Current Discharge (Amperes) at 25°C (77°F)

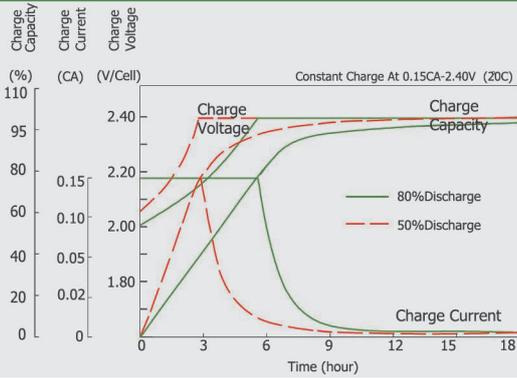
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	670.4	453.3	348.0	238.1	166.9	140.6	66.8	34.9	25.1	19.0	16.4
1.80V/cell	751.5	496.5	378.5	256.5	178.5	150.0	69.1	36.3	26.0	19.5	16.9
1.75V/cell	781.4	513.8	387.1	261.6	181.5	152.6	69.5	37.1	26.7	19.9	17.1
1.70V/cell	815.5	526.7	394.8	265.5	184.1	154.3	70.6	37.8	27.0	20.2	17.4
1.67V/cell	836.9	535.4	402.1	269.8	186.3	155.6	71.3	38.2	27.2	20.5	17.6
1.60V/cell	849.7	544.0	406.9	272.4	187.6	156.9	71.9	38.6	27.4	20.7	17.8

Constant Power Discharge (Watts/cell) at 25°C (77°F)

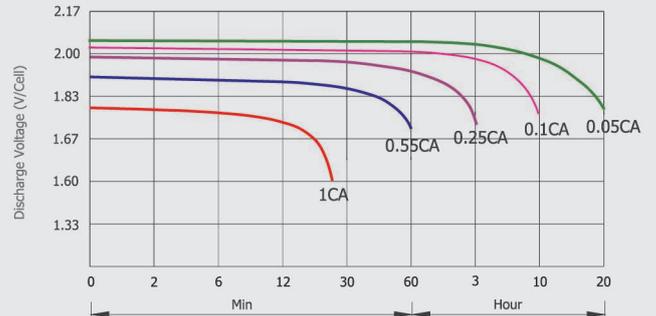
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1293.8	880.7	678.8	467.5	330.7	279.4	133.4	69.9	50.4	38.2	33.0
1.80V/cell	1447.5	962.8	734.7	501.8	353.6	297.9	137.8	72.5	52.2	39.2	33.9
1.75V/cell	1494.5	984.4	747.5	510.4	358.7	302.1	138.6	74.0	53.5	39.9	34.4
1.70V/cell	1545.7	1006.0	760.4	519.0	362.6	305.1	140.7	75.4	54.0	40.4	34.8
1.67V/cell	1575.6	1023.2	773.3	523.3	366.1	307.7	141.8	76.1	54.3	41.1	35.2
1.60V/cell	1592.7	1031.9	777.6	527.6	367.8	309.4	142.8	76.8	54.6	41.5	35.6

NOTICE: Manual measurement, product specifications and dimensions may have errors, subject to actual receipt.

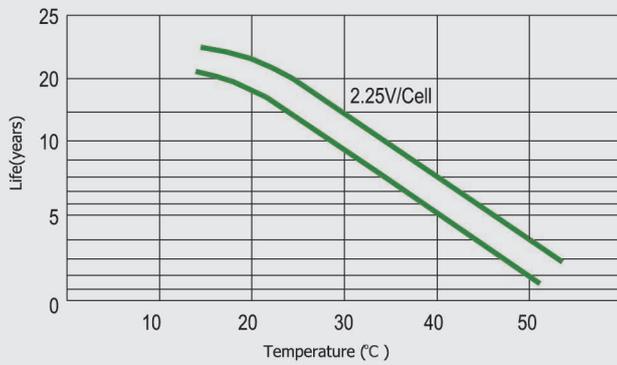
Discharge Characteristics



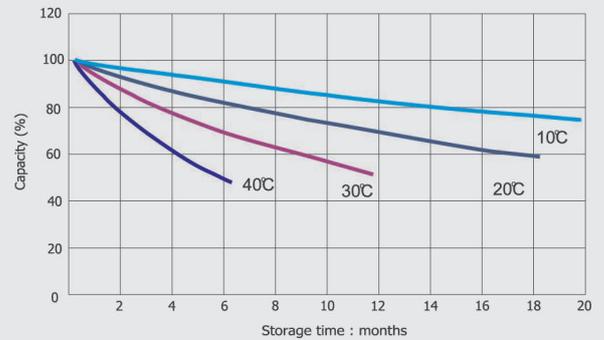
Charging Characteristics



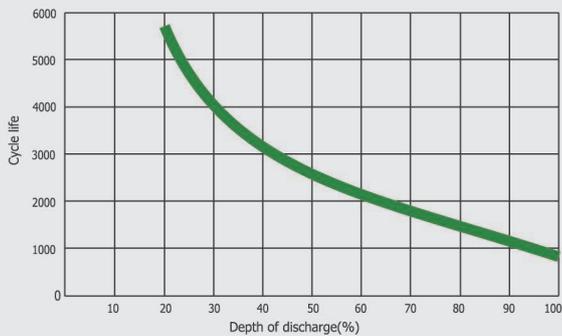
Temperature vs Float Life



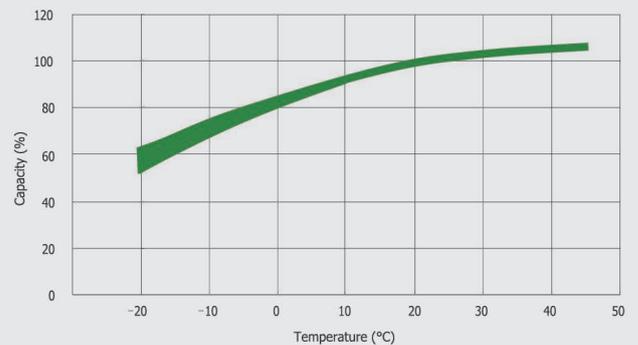
Self Discharge Characteristics



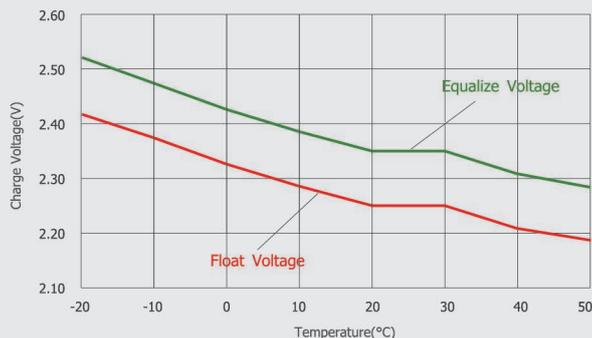
Cycle Life vs Depth of Discharge



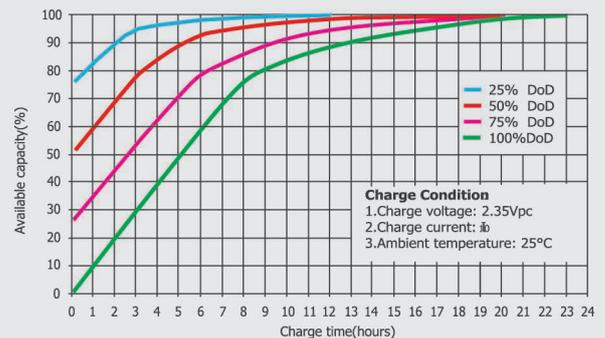
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



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