

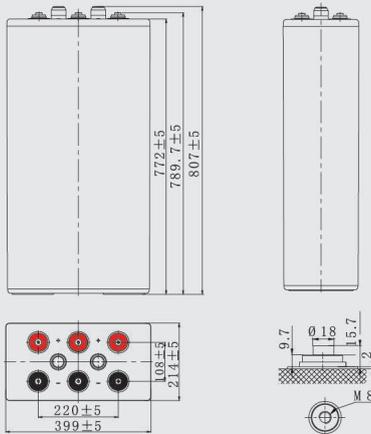
Sohigh BAT-2000AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology, High Quality



Dimensions (mm)



Specifications

Rated Voltage	2V	
Nominal Capacity	2000Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	399±5mm(15.71 in.)
	Width	214±5mm(8.42 in.)
	Container Height	772±5mm(30.39 in.)
	Total Height	807±5mm(31.77 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	2600.0 Ah	(100hr,26.0A, 1.80V/cell)
	2000.0 Ah	(10hr,200.0A, 1.80V/cell)
	1735.0 Ah	(5hr,347.0A, 1.75V/cell)
	1530.0 Ah	(3hr,510.0A, 1.75V/cell)
	1112.0 Ah	(1hr,1112.0A, 1.65V/cell)
Max. Discharge Current (5s)	16000A	
Internal Resistance(25°C)	Approx.0.31mΩ	
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)	500.0A	
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	

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

Solar OPzV Battery

2V Voltage

2000AH Capacity

Tubular Gel

20+ Years Design Life

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

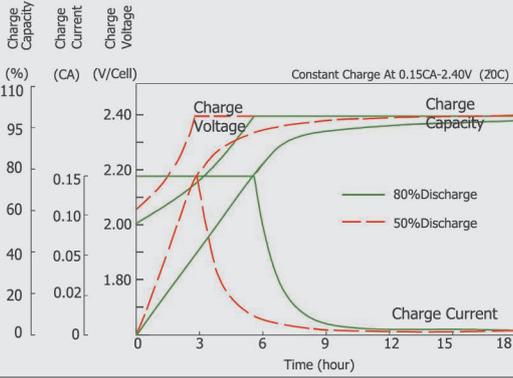
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	893.8	604.4	464.0	317.4	222.5	187.4	89.0	46.5	33.5	25.4	21.9
1.80V/cell	1002.0	662.0	504.7	342.0	238.0	200.0	92.1	48.3	34.7	26.0	22.5
1.75V/cell	1041.9	685.0	516.1	348.9	242.0	203.4	92.7	49.4	35.6	26.5	22.8
1.70V/cell	1087.4	702.3	526.4	354.0	245.5	205.7	94.2	50.4	36.0	26.9	23.1
1.67V/cell	1115.9	713.8	536.2	359.7	248.3	207.4	95.0	50.9	36.3	27.4	23.4
1.60V/cell	1132.9	725.3	542.5	363.2	250.1	209.1	95.8	51.5	36.5	27.7	23.7

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

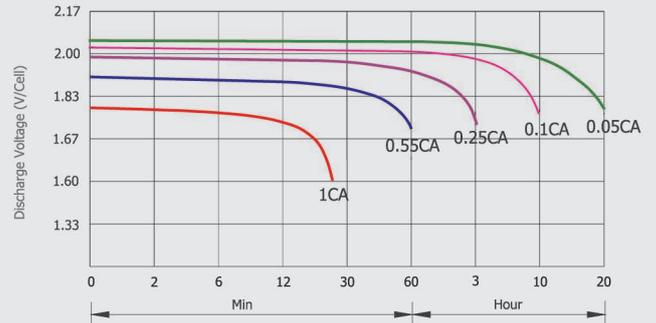
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1725.0	1174.3	905.1	623.4	440.9	372.6	177.9	93.2	67.2	51.0	44.0
1.80V/cell	1930.0	1283.7	979.5	669.1	471.4	397.1	183.8	96.6	69.6	52.2	45.2
1.75V/cell	1992.6	1312.5	996.7	680.6	478.3	402.9	184.8	98.7	71.3	53.2	45.9
1.70V/cell	2060.9	1341.3	1013.9	692.0	483.5	406.9	187.6	100.5	72.0	53.9	46.4
1.67V/cell	2100.8	1364.3	1031.1	697.7	488.1	410.3	189.1	101.5	72.5	54.8	47.0
1.60V/cell	2123.6	1375.8	1036.8	703.4	490.4	412.6	190.4	102.5	72.9	55.3	47.4

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

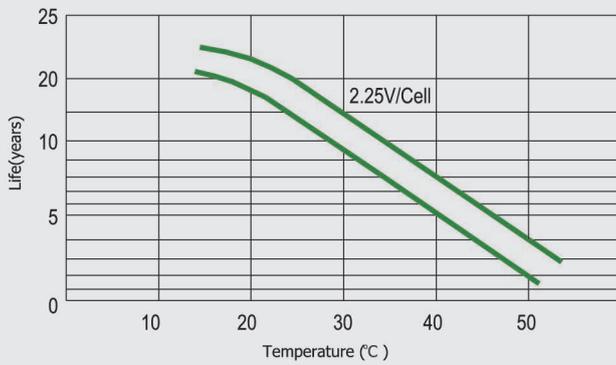
Discharge Characteristics



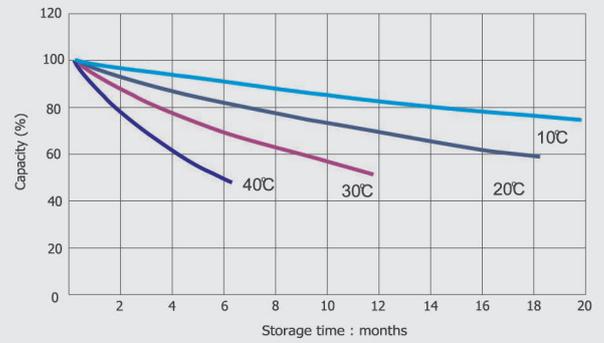
Charging Characteristics



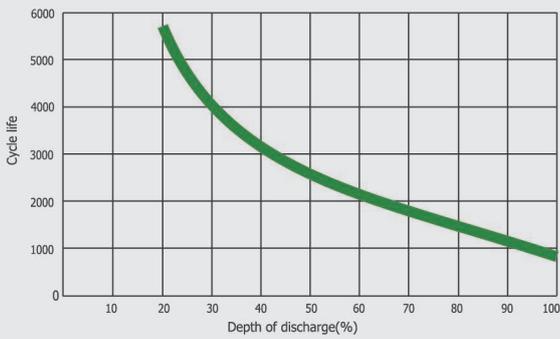
Temperature vs Float Life



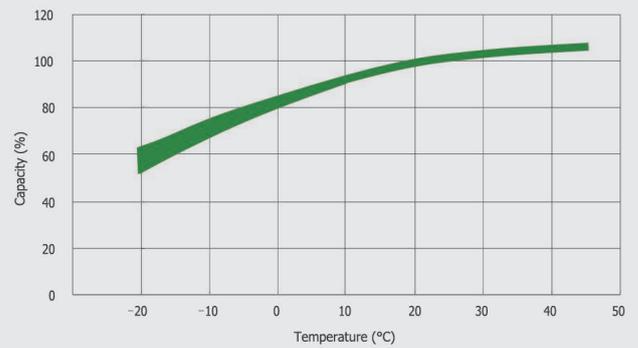
Self Discharge Characteristics



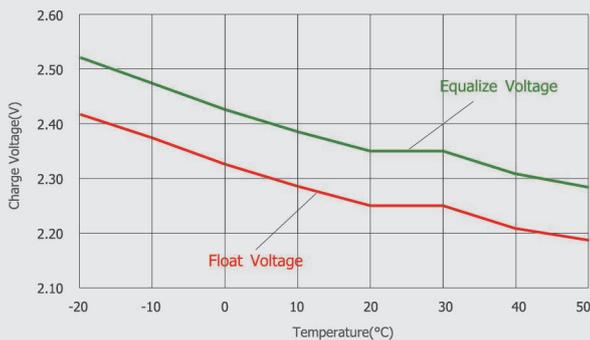
Cycle Life vs Depth of Discharge



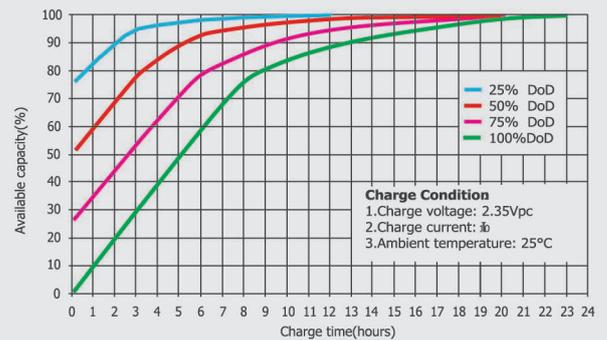
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



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