

Solar OPzV Battery

Sohigh BAT OPzV



PRODUCT FEATURES

- Low self-discharge, made of high-quality materials, monthly self-discharge rate $\leq 1.5\%$
- Using colloidal, large heat capacity, good heat resistance, suitable for use in harsh environments ($-40\sim 60^{\circ}\text{C}$), excellent cycle performance and deep discharge recovery ability
- No need for water maintenance, gas recombination efficiency is higher than 95%
- Long service life, floating charge design life of 20 years, stable capacity and low decay rate during normal floating charge use
- Excellent sealing performance, no gas penetration, no pollution to the environment, it is an environmentally friendly product
- Excellent safety performance, special separator, high porosity, low resistance
- The copper pole with low internal resistance ensures safe discharge of large current without heating. The solid gel electrolyte has uniform concentration distribution and no delamination
- High product reliability, fire and flame retardant safety valve can effectively prevent external open flames or sparks

SOHIGH
SOLAR

STENTON

Solar OPzV Battery

Sohigh BAT OPzV

03 -04

Sohigh BAT-200AH-OPzV

Solar OPzV Battery 2V 200AH

05 -06

Sohigh BAT-300AH-OPzV

Solar OPzV Battery 2V 300AH

07 -08

Sohigh BAT-420AH-OPzV

Solar OPzV Battery 2V 420AH

09 -10

Sohigh BAT-500AH-OPzV

Solar OPzV Battery 2V 500AH

11 -12

Sohigh BAT-600AH-OPzV

Solar OPzV Battery 2V 600AH

13 -14

Sohigh BAT-800AH-OPzV

Solar OPzV Battery 2V 800AH

15 -16

Sohigh BAT-1000AH-OPzV

Solar OPzV Battery 2V 1000AH

17 -18

Sohigh BAT-1200AH-OPzV

Solar OPzV Battery 2V 1200AH

19 -20

Sohigh BAT-1500AH-OPzV

Solar OPzV Battery 2V 1500AH

21 -22

Sohigh BAT-2000AH-OPzV

Solar OPzV Battery 2V 2000AH

23 -24

Sohigh BAT-2500AH-OPzV

Solar OPzV Battery 2V 2500AH

25 -26

Sohigh BAT-3000AH-OPzV

Solar OPzV Battery 2V 3000AH

**SOHIGH
SOLAR**

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Sohigh Technology Co., Limited(HongKong)

Sohigh Solar
High Technology, High Quality

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02

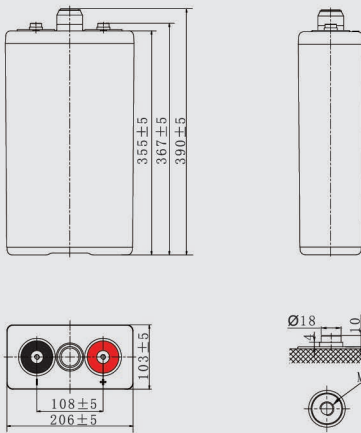
Sohigh BAT-200AH-OPzV

Solar OPzVBattery

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High Technology. High Quality



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

Specifications

Rated Voltage	2V	
Nominal Capacity	200.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	103±5mm(4.05 in.)
	Width	206±5mm(8.11 in.)
	Container Height	355±5mm(13.97 in.)
	Total Height	390±5mm(15.35 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	260.0 Ah	(100hr, 2.60A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	174.5 Ah	(5hr, 34.9A, 1.75V/cell)
	154.8 Ah	(3hr, 51.6A, 1.75V/cell)
	111.6 Ah	(1hr, 111.6A, 1.65V/cell)
Max. Discharge Current (5s)	1600A	
Internal Resistance(25°C)	Approx. 1.00mΩ	
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)	50.0A	
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 OPzV Battery

2V Voltage

200AH Capacity

Tubular Gel

20+ Years Design Life



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

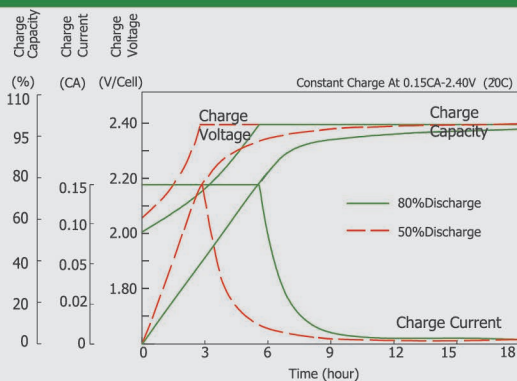
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	89.4	60.4	46.4	31.7	22.2	18.7	8.90	4.65	3.35	2.54	2.19
1.80V/cell	100.2	66.2	50.5	34.2	23.8	20.0	9.21	4.83	3.47	2.60	2.25
1.75V/cell	104.2	68.5	51.6	34.9	24.2	20.3	9.27	4.94	3.56	2.65	2.28
1.70V/cell	108.7	70.2	52.6	35.4	24.5	20.6	9.42	5.04	3.60	2.69	2.31
1.67V/cell	111.6	71.4	53.6	36.0	24.8	20.7	9.50	5.09	3.63	2.74	2.34
1.60V/cell	113.3	72.5	54.2	36.3	25.0	20.9	9.58	5.15	3.65	2.77	2.37

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

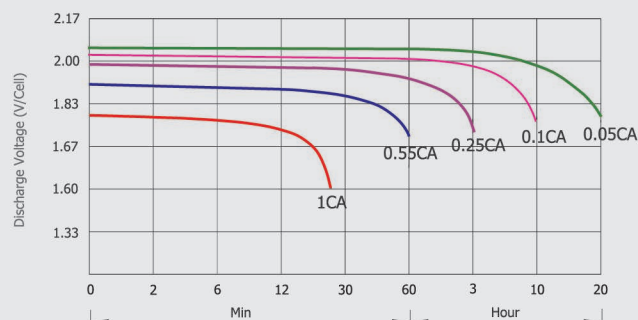
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	172.5	117.4	90.5	62.3	44.1	37.3	17.8	9.32	6.72	5.10	4.40
1.80V/cell	193.0	128.4	98.0	66.9	47.1	39.7	18.4	9.66	6.96	5.22	4.52
1.75V/cell	199.3	131.2	99.7	68.1	47.8	40.3	18.5	9.87	7.13	5.32	4.59
1.70V/cell	206.1	134.1	101.4	69.2	48.3	40.7	18.8	10.1	7.20	5.39	4.64
1.67V/cell	210.1	136.4	103.1	69.8	48.8	41.0	18.9	10.1	7.25	5.48	4.70
1.60V/cell	212.4	137.6	103.7	70.3	49.0	41.3	19.0	10.2	7.29	5.53	4.74

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

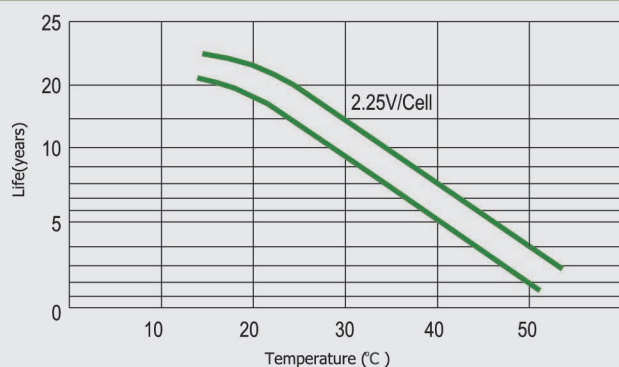
Discharge Characteristics



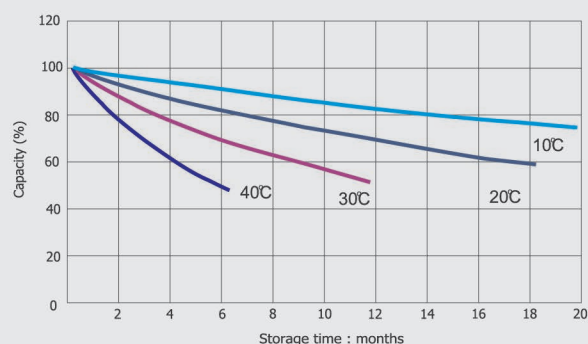
Charging Characteristics



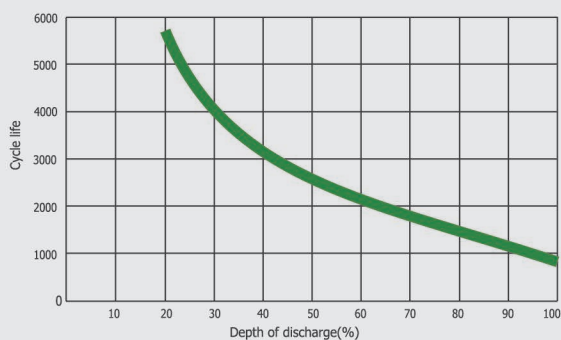
Temperature vs Float Life



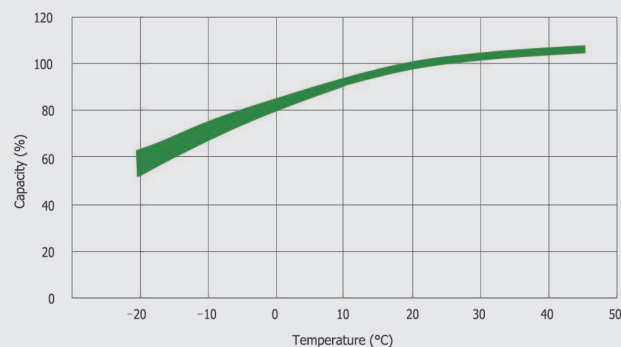
Self Discharge Characteristics



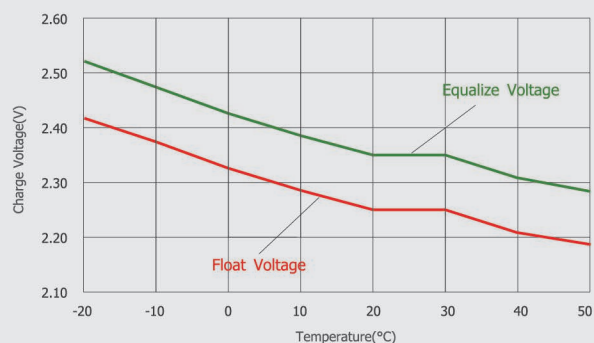
Cycle Life vs Depth of Discharge



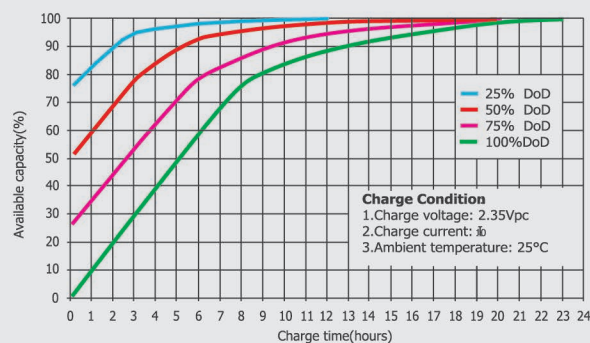
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



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Sohigh BAT-300AH-OPzV

Solar OPzV Battery

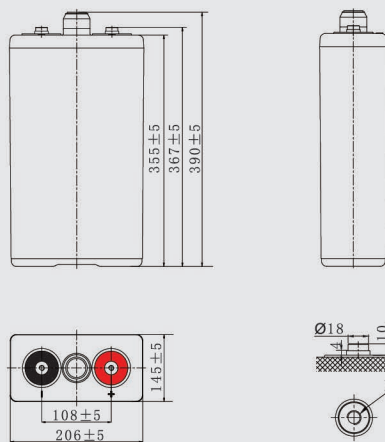
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Specifications

Rated Voltage		2V
Nominal Capacity		300Ah (C ₁₀ , 1.80V/cell)
Dimension	Length	145±5mm(5.71 in.)
	Width	206±5mm(8.11 in.)
	Container Height	355±5mm(13.97 in.)
	Total Height	390±5mm(15.35 in.)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	390.0 Ah	(100hr, 3.90A, 1.80V/cell)
	300.0 Ah	(10hr, 30.0A, 1.80V/cell)
	263.0Ah	(5hr, 52.6A, 1.75V/cell)
	233.7Ah	(3hr, 77.9A, 1.75V/cell)
	168.0 Ah	(1hr, 168.0A, 1.65V/cell)
Max. Discharge Current (5s)		2400A
Internal Resistance(25°C)		Approx. 1.00mΩ
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)		75.0A
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

Solar OPzV Battery

2V Voltage

300AH Capacity

Tubular Gel

20+ Years Design Life



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

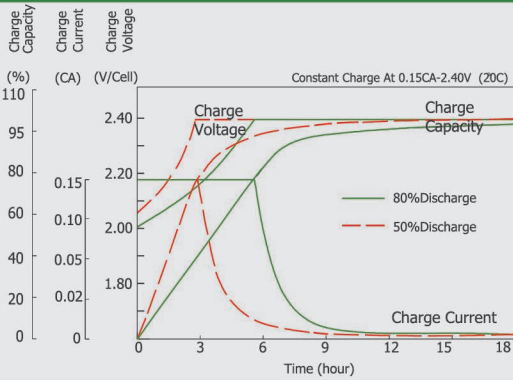
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	134.1	90.7	69.6	47.6	33.4	28.1	13.4	6.98	5.02	3.80	3.28
1.80V/cell	150.3	99.3	75.7	51.3	35.7	30.0	13.8	7.25	5.21	3.90	3.38
1.75V/cell	156.3	102.8	77.4	52.3	36.3	30.5	13.9	7.41	5.34	3.98	3.43
1.70V/cell	163.1	105.3	79.0	53.1	36.8	30.9	14.1	7.56	5.39	4.04	3.47
1.67V/cell	167.4	107.1	80.4	54.0	37.3	31.1	14.3	7.64	5.44	4.10	3.52
1.60V/cell	169.9	108.8	81.4	54.5	37.5	31.4	14.4	7.72	5.48	4.15	3.56

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

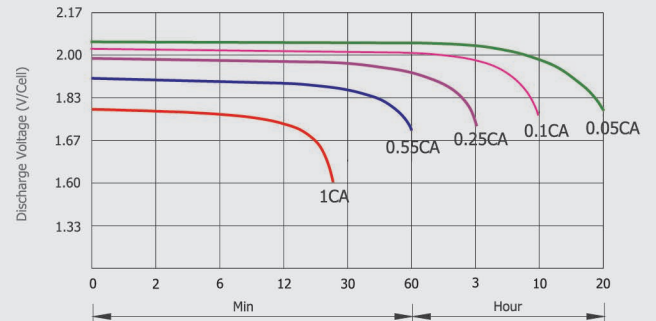
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	258.8	176.1	135.8	93.5	66.1	55.9	26.7	14.0	10.1	7.65	6.61
1.80V/cell	289.5	192.6	146.9	100.4	70.7	59.6	27.6	14.5	10.4	7.83	6.79
1.75V/cell	298.9	196.9	149.5	102.1	71.7	60.4	27.7	14.8	10.7	7.98	6.88
1.70V/cell	309.1	201.2	152.1	103.8	72.5	61.0	28.1	15.1	10.8	8.09	6.97
1.67V/cell	315.1	204.6	154.7	104.7	73.2	61.5	28.4	15.2	10.9	8.22	7.05
1.60V/cell	318.5	206.4	155.5	105.5	73.6	61.9	28.6	15.4	10.9	8.29	7.12

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

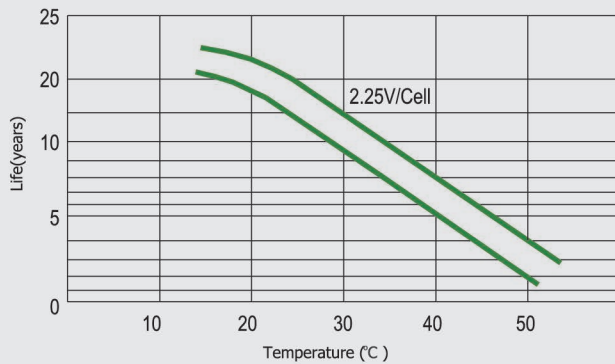
Discharge Characteristics



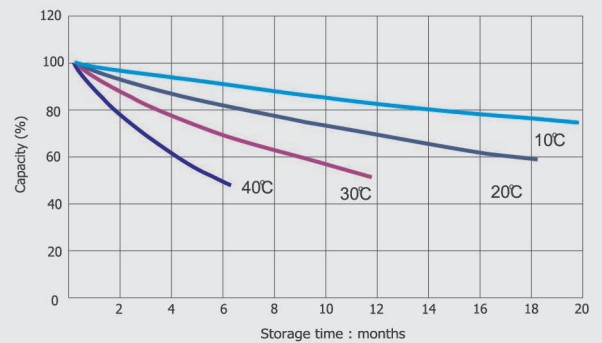
Charging Characteristics



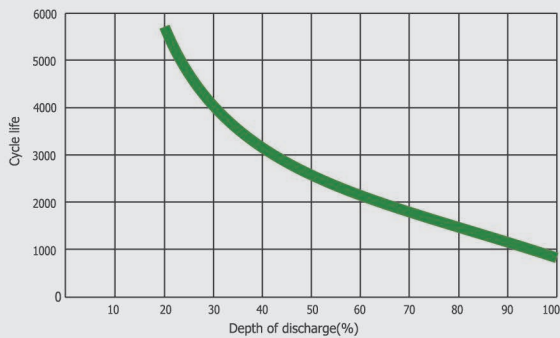
Temperature vs Float Life



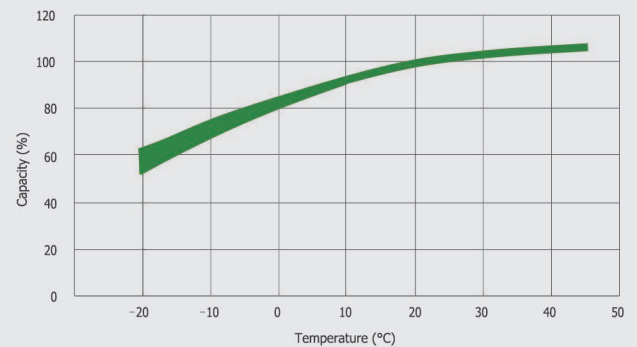
Self Discharge Characteristics



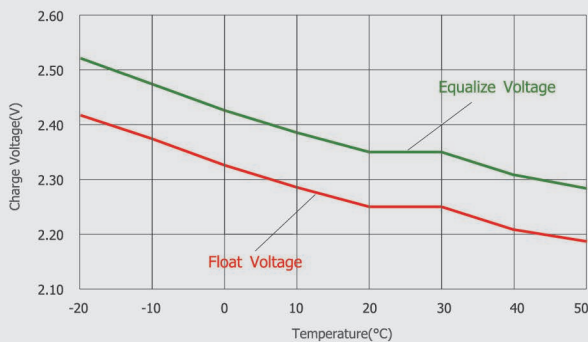
Cycle Life vs Depth of Discharge



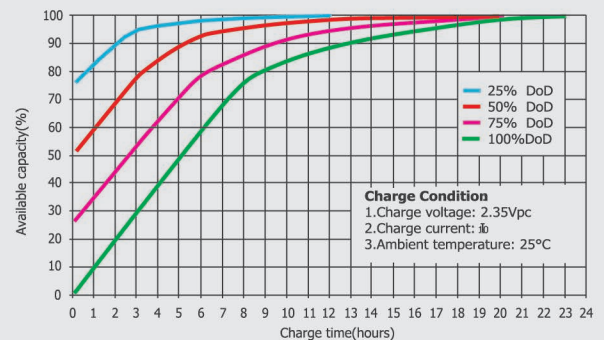
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



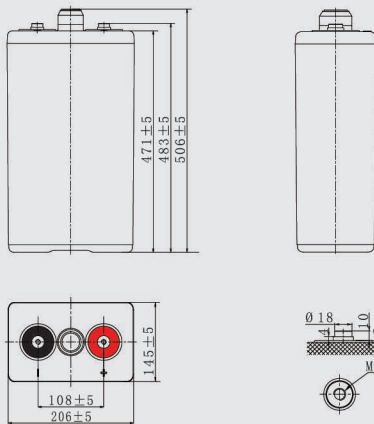
Sohigh BAT-420AH-OPzV

Solar OPzV Battery

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High Technology. High Quality



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

Specifications

Rated Voltage	2V	
Nominal Capacity	420Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	145±5mm(5.71 in.)
	Width	206±5mm(8.11 in.)
	Container Height	471±5mm(18.54 in.)
	Total Height	506±5mm(19.92 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	546.0 Ah	(100hr,5.46A,1.80V/cell)
	420.0 Ah	(10hr,42.0A,1.80V/cell)
	365.5 Ah	(5hr,73.1A,1.75V/cell)
	324.0 Ah	(3hr,108.0A,1.75V/cell)
	235.0 Ah	(1hr,235.0A,1.65V/cell)
Max. Discharge Current (5s)	3360A	
Internal Resistance(25°C)	Approx.0.80mΩ	
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)	105.0A	
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 OPzV Battery

2V Voltage	420AH Capacity	Tubular Gel	20+ Years Design Life

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

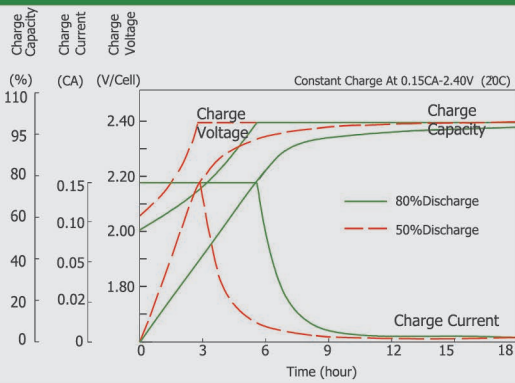
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	187.7	126.9	97.4	66.7	46.7	39.4	18.7	9.77	7.03	5.33	4.59
1.80V/cell	210.4	139.0	106.0	71.8	50.0	42.0	19.3	10.2	7.29	5.46	4.73
1.75V/cell	218.8	143.9	108.4	73.3	50.8	42.7	19.5	10.4	7.48	5.57	4.80
1.70V/cell	228.4	147.5	110.6	74.3	51.5	43.2	19.8	10.6	7.55	5.65	4.86
1.67V/cell	234.3	149.9	112.6	75.5	52.2	43.6	20.0	10.7	7.61	5.75	4.92
1.60V/cell	237.9	152.3	113.9	76.3	52.5	43.9	20.1	10.8	7.67	5.81	4.98

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

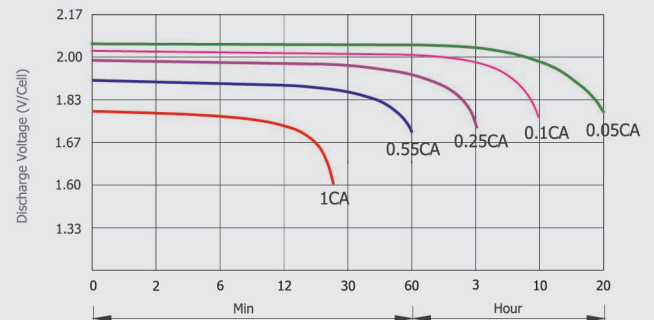
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	362.3	246.6	190.1	130.9	92.6	78.2	37.4	19.6	14.1	10.7	9.25
1.80V/cell	405.3	269.6	205.7	140.5	99.0	83.4	38.6	20.3	14.6	11.0	9.50
1.75V/cell	418.4	275.6	209.3	142.9	100.4	84.6	38.8	20.7	15.0	11.2	9.63
1.70V/cell	432.8	281.7	212.9	145.3	101.5	85.4	39.4	21.1	15.1	11.3	9.75
1.67V/cell	441.2	286.5	216.5	146.5	102.5	86.2	39.7	21.3	15.2	11.5	9.87
1.60V/cell	445.9	288.9	217.7	147.7	103.0	86.6	40.0	21.5	15.3	11.6	9.96

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

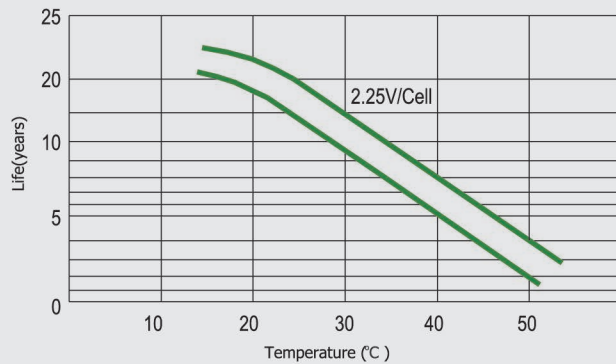
Discharge Characteristics



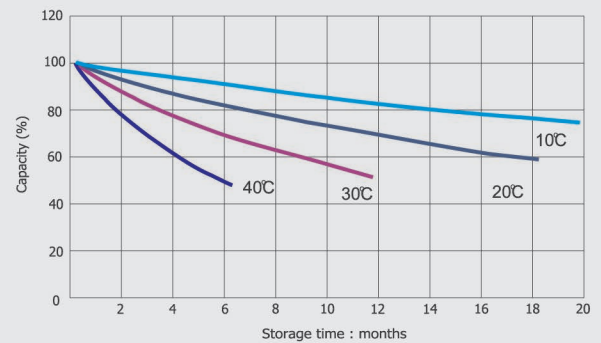
Charging Characteristics



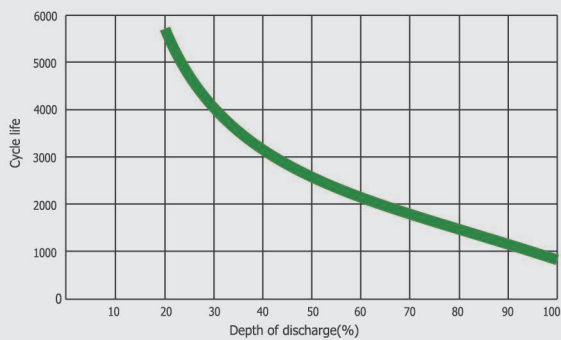
Temperature vs Float Life



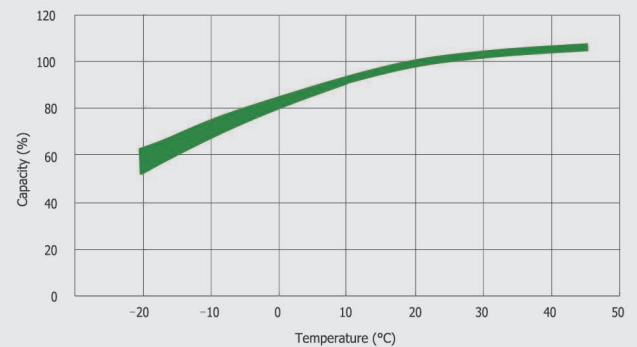
Self Discharge Characteristics



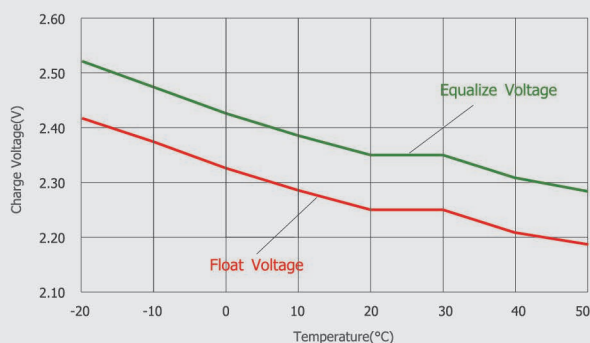
Cycle Life vs Depth of Discharge



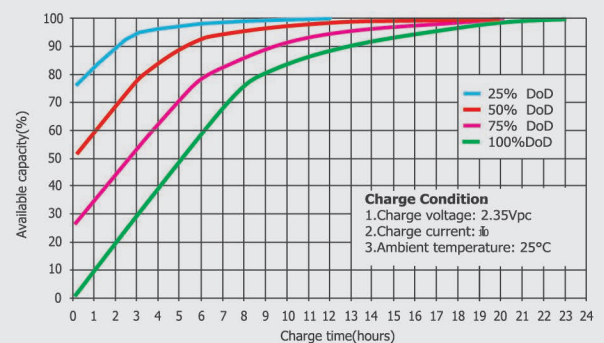
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



Sohigh BAT-500AH-OPzV

Solar OPzV Battery

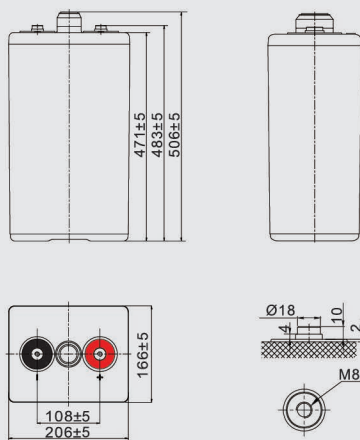
Sohigh Solar
High Technology. High Quality



Specifications

Rated Voltage	2V	
Nominal Capacity	500Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	166±5mm(6.53 in.)
	Width	206±5mm(8.11 in.)
	Container Height	471±5mm(18.54 in.)
	Total Height	506±5mm(19.92 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	637.0 Ah	(100hr, 6.37A, 1.80V/cell)
	490.0 Ah	(10hr, 49.0A, 1.80V/cell)
	426.5 Ah	(5hr, 85.3A, 1.75V/cell)
	378.0 Ah	(3hr, 126.0A, 1.75V/cell)
	274.0 Ah	(1hr, 274.0A, 1.65V/cell)
Max. Discharge Current (5s)	3920A	
Internal Resistance(25°C)	Approx.0.73mΩ	
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)	122.5A	
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

Solar OPzV Battery

2V Voltage	500AH Capacity	Tubular Gel	20+ Years Design Life

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

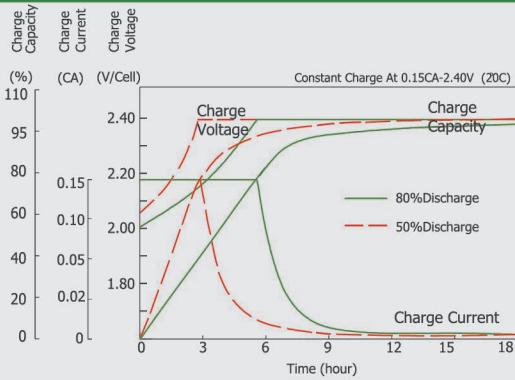
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	219.0	148.1	113.7	77.8	54.5	45.9	21.8	11.4	8.20	6.21	5.36
1.80V/cell	245.5	162.2	123.6	83.8	58.3	49.0	22.6	11.8	8.51	6.37	5.51
1.75V/cell	255.3	167.8	126.5	85.5	59.3	49.8	22.7	12.1	8.72	6.50	5.59
1.70V/cell	266.4	172.1	129.0	86.7	60.1	50.4	23.1	12.3	8.81	6.59	5.67
1.67V/cell	273.4	174.9	131.4	88.1	60.8	50.8	23.3	12.5	8.88	6.70	5.74
1.60V/cell	277.6	177.7	132.9	89.0	61.3	51.2	23.5	12.6	8.94	6.78	5.81

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

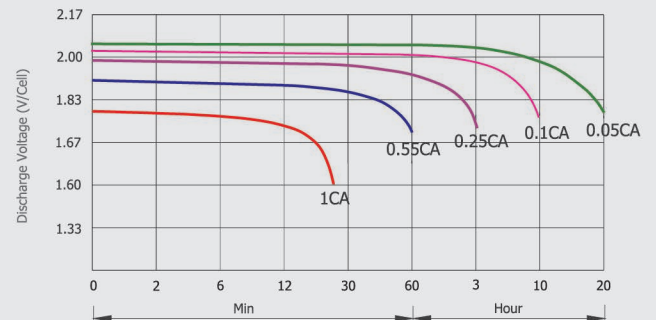
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	422.6	287.7	221.7	152.7	108.0	91.3	43.6	22.8	16.5	12.5	10.8
1.80V/cell	472.8	314.5	240.0	163.9	115.5	97.3	45.0	23.7	17.1	12.8	11.1
1.75V/cell	488.2	321.6	244.2	166.7	117.2	98.7	45.3	24.2	17.5	13.0	11.2
1.70V/cell	504.9	328.6	248.4	169.5	118.5	99.7	46.0	24.6	17.6	13.2	11.4
1.67V/cell	514.7	334.3	252.6	170.9	119.6	100.5	46.3	24.9	17.8	13.4	11.5
1.60V/cell	520.3	337.1	254.0	172.3	120.1	101.1	46.7	25.1	17.9	13.5	11.6

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

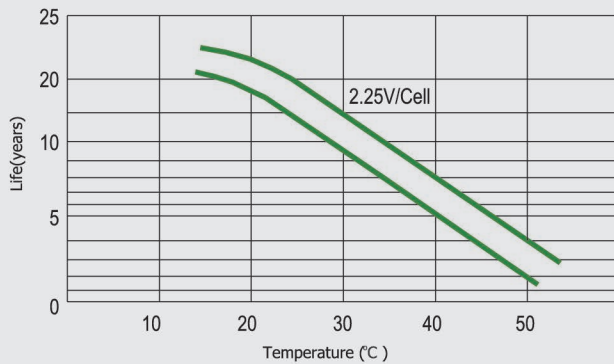
Discharge Characteristics



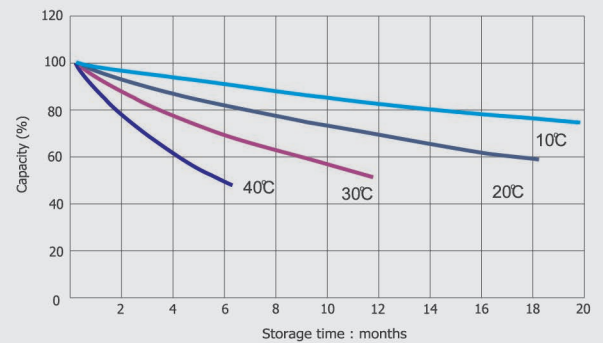
Charging Characteristics



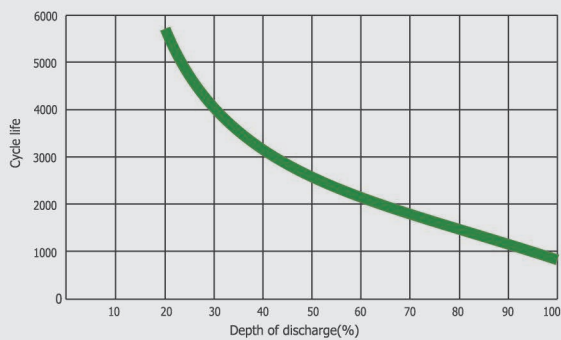
Temperature vs Float Life



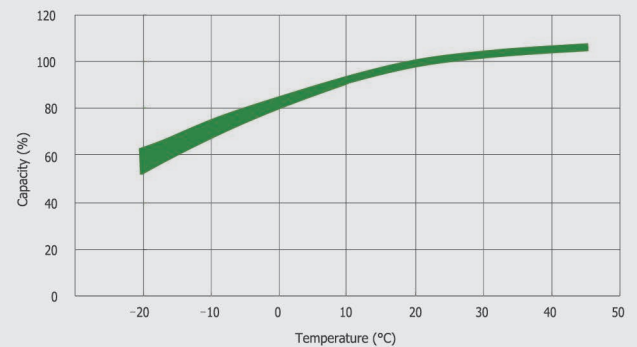
Self Discharge Characteristics



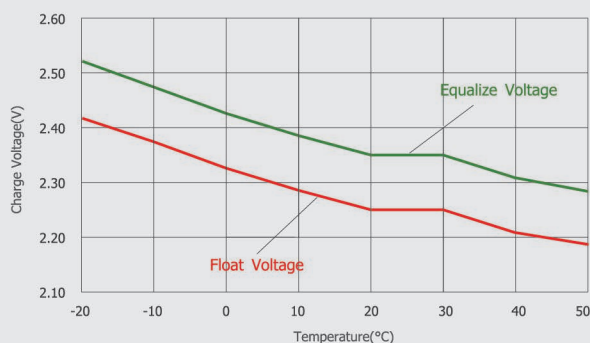
Cycle Life vs Depth of Discharge



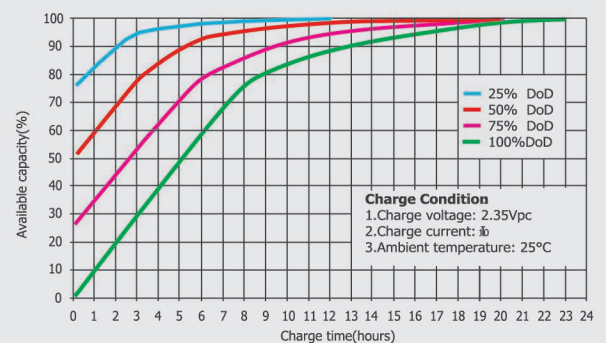
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



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

Sohigh BAT-600AH-OPzV

Solar OPzV Battery

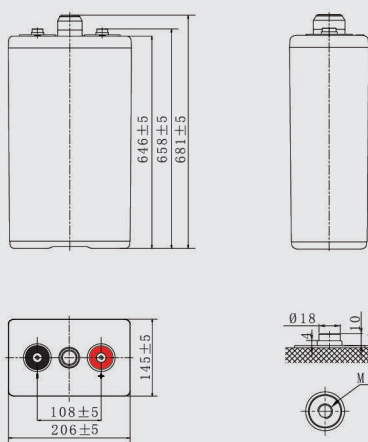
Sohigh Solar
High Technology. High Quality



Specifications

Rated Voltage		2V
Nominal Capacity		600Ah (C ₁₀ , 1.80V/cell)
Dimension	Length	145±5mm(5.71 in.)
	Width	206±5mm(8.11 in.)
	Container Height	646±5mm(25.43 in.)
	Total Height	681±5mm(26.81 in.)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	780.0 Ah	(100hr, 7.80A, 1.80V/cell)
	600.0 Ah	(10hr, 60.0A, 1.80V/cell)
	523.0 Ah	(5hr, 104.6A, 1.75V/cell)
	456.0 Ah	(3hr, 152.0A, 1.75V/cell)
	335.0 Ah	(1hr, 335.0A, 1.65V/cell)
Max. Discharge Current (5s)		4800A
Internal Resistance(25°C)		Approx.0.62mΩ
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)		150.0A
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

Solar OPzV Battery

2V Voltage

600AH Capacity

Tubular Gel

20+ Years Design Life



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

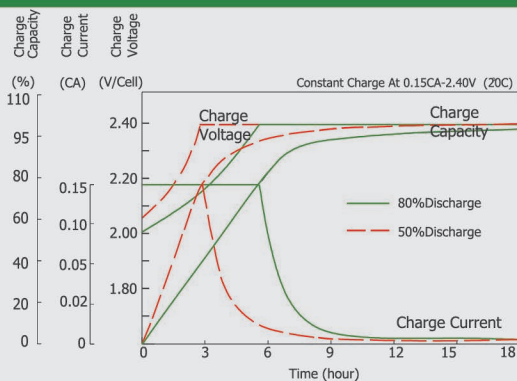
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	268.1	181.3	139.2	95.2	66.7	56.2	26.7	14.0	10.0	7.61	6.56
1.80V/cell	300.6	198.6	151.4	102.6	71.4	60.0	27.6	14.5	10.4	7.80	6.75
1.75V/cell	312.6	205.5	154.8	104.7	72.6	61.0	27.8	14.8	10.7	7.96	6.85
1.70V/cell	326.2	210.7	157.9	106.2	73.6	61.7	28.3	15.1	10.8	8.07	6.94
1.67V/cell	334.8	214.1	160.9	107.9	74.5	62.2	28.5	15.3	10.9	8.21	7.03
1.60V/cell	339.9	217.6	162.7	108.9	75.0	62.7	28.8	15.4	11.0	8.30	7.11

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

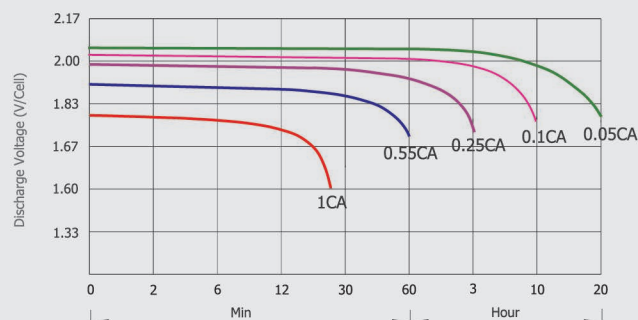
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	517.5	352.3	271.5	187.0	132.3	111.8	53.4	27.9	20.2	15.3	13.2
1.80V/cell	579.0	385.1	293.9	200.7	141.4	119.1	55.1	29.0	20.9	15.7	13.6
1.75V/cell	597.8	393.7	299.0	204.2	143.5	120.9	55.4	29.6	21.4	16.0	13.8
1.70V/cell	618.3	402.4	304.2	207.6	145.0	122.1	56.3	30.2	21.6	16.2	13.9
1.67V/cell	630.2	409.3	309.3	209.3	146.4	123.1	56.7	30.4	21.7	16.4	14.1
1.60V/cell	637.1	412.7	311.0	211.0	147.1	123.8	57.1	30.7	21.9	16.6	14.2

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

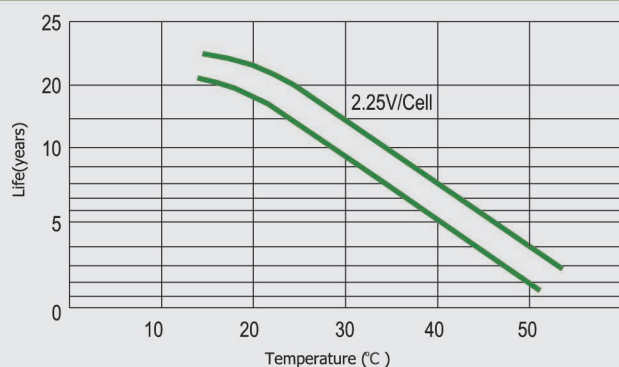
Discharge Characteristics



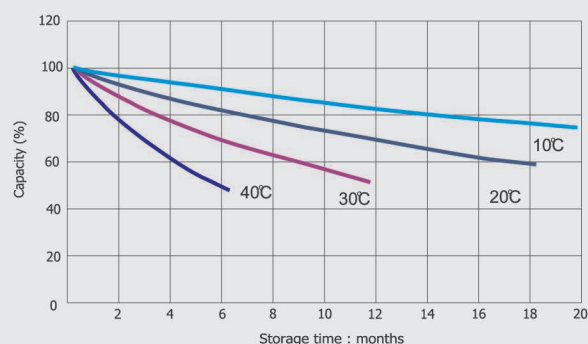
Charging Characteristics



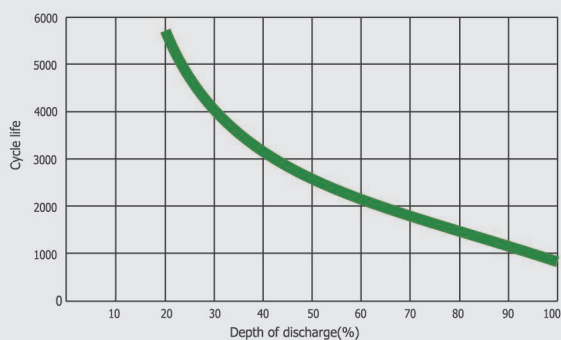
Temperature vs Float Life



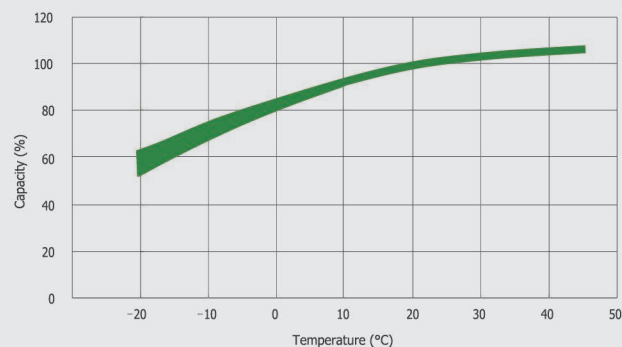
Self Discharge Characteristics



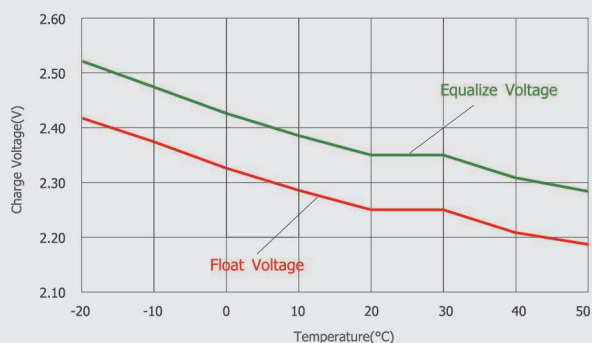
Cycle Life vs Depth of Discharge



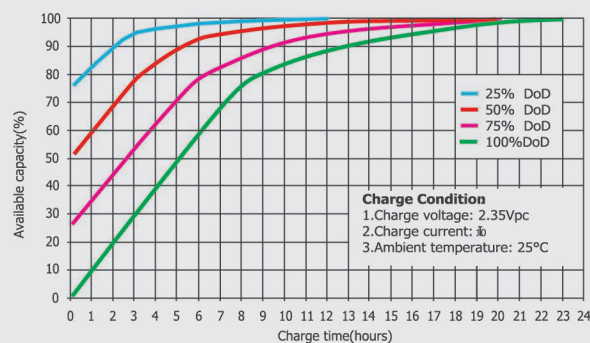
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



Sohigh BAT-800AH-OPzV

Solar OPzV Battery

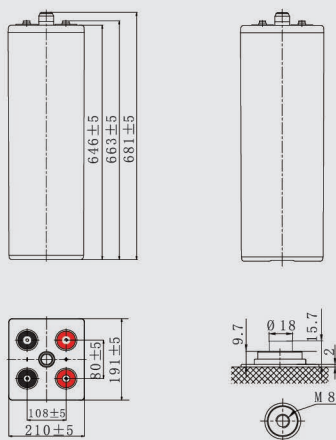
Sohigh Solar
High Technology. High Quality



Specifications

Rated Voltage		2V
Nominal Capacity	800Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	191±5mm(7.52 in.)
	Width	210±5mm(8.27 in.)
	Container Height	646±5mm(25.43 in.)
	Total Height	681±5mm(26.81 in.)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	1040.0 Ah	(100hr, 10.4A, 1.80V/cell)
	800.0 Ah	(10hr, 80.0A, 1.80V/cell)
	697.5 Ah	(5hr, 139.5A, 1.75V/cell)
	612.0 Ah	(3hr, 204.0A, 1.75V/cell)
	446.0 Ah	(1hr, 446.0A, 1.65V/cell)
Max. Discharge Current (5s)		6400A
Internal Resistance(25°C)		Approx.0.50mΩ
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)		200.0A
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

Solar OPzV Battery

2V Voltage

800AH Capacity

Tubular Gel

20+ Years Design Life



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

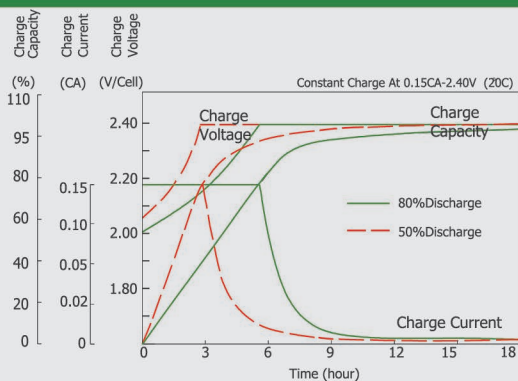
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	357.5	241.8	185.6	127.0	89.0	75.0	35.6	18.6	13.4	10.1	8.75
1.80V/cell	400.8	264.8	201.9	136.8	95.2	80.0	36.8	19.3	13.9	10.4	9.00
1.75V/cell	416.7	274.0	206.4	139.5	96.8	81.4	37.1	19.8	14.2	10.6	9.13
1.70V/cell	435.0	280.9	210.6	141.6	98.2	82.3	37.7	20.2	14.4	10.8	9.26
1.67V/cell	446.3	285.5	214.5	143.9	99.3	83.0	38.0	20.4	14.5	10.9	9.38
1.60V/cell	453.2	290.1	217.0	145.3	100.0	83.7	38.3	20.6	14.6	11.1	9.48

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

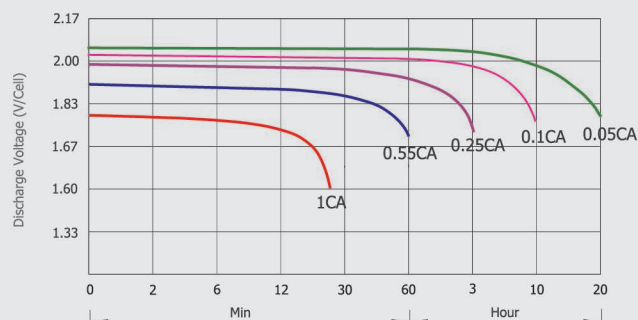
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	690.0	469.7	362.0	249.4	176.4	149.0	71.2	37.3	26.9	20.4	17.6
1.80V/cell	772.0	513.5	391.8	267.7	188.6	158.9	73.5	38.6	27.8	20.9	18.1
1.75V/cell	797.0	525.0	398.7	272.2	191.3	161.1	73.9	39.5	28.5	21.3	18.3
1.70V/cell	824.4	536.5	405.6	276.8	193.4	162.7	75.0	40.2	28.8	21.6	18.6
1.67V/cell	840.3	545.7	412.4	279.1	195.2	164.1	75.6	40.6	29.0	21.9	18.8
1.60V/cell	849.4	550.3	414.7	281.4	196.1	165.0	76.2	41.0	29.1	22.1	19.0

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

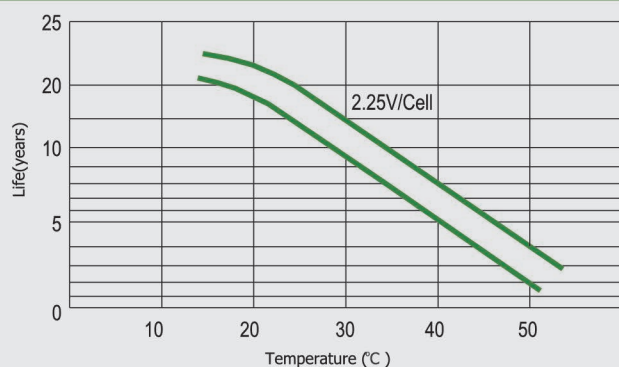
Discharge Characteristics



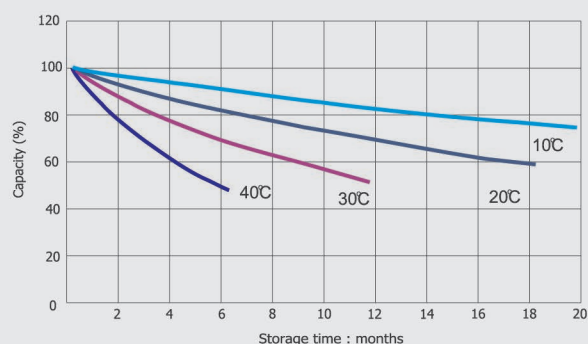
Charging Characteristics



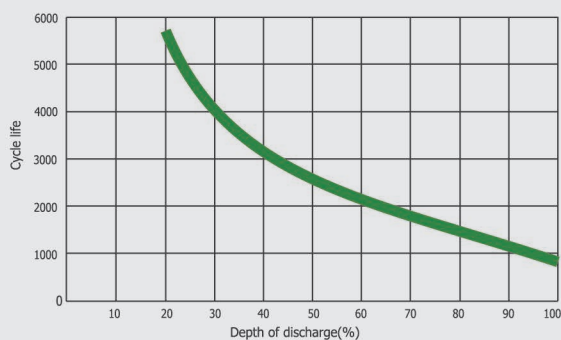
Temperature vs Float Life



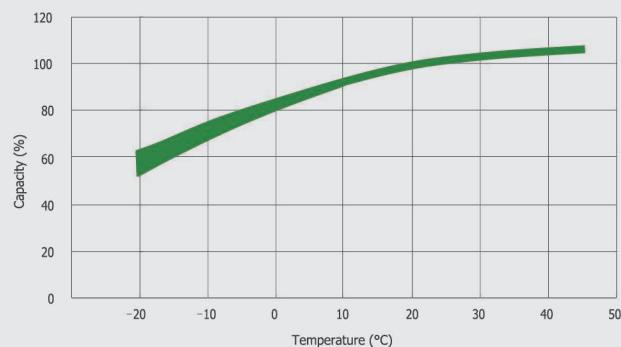
Self Discharge Characteristics



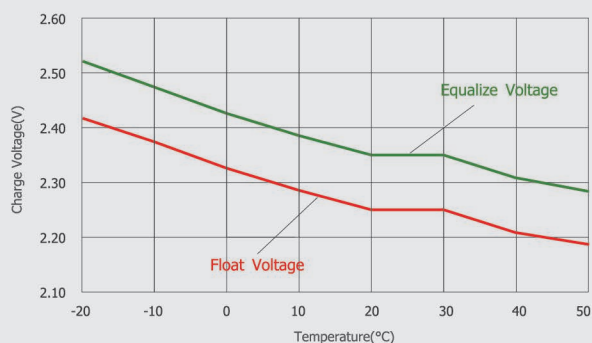
Cycle Life vs Depth of Discharge



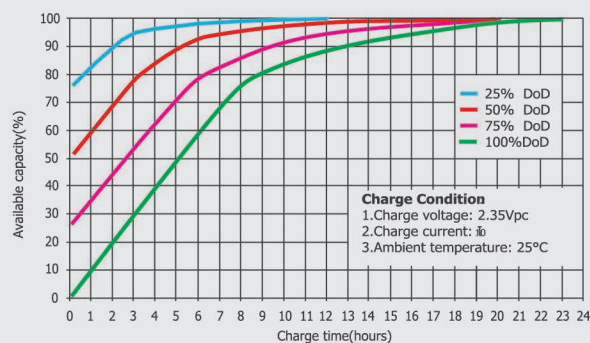
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



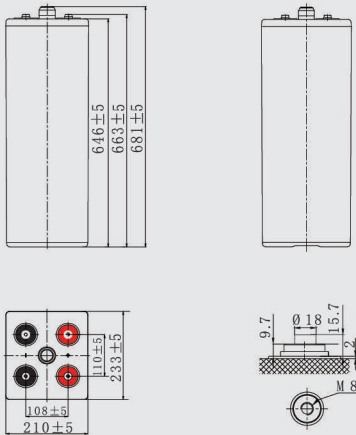
Sohigh BAT-1000AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology. High Quality



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

Specifications

Rated Voltage		2V
Nominal Capacity		1000Ah (C ₁₀ , 1.80V/cell)
Dimension	Length	233±5mm(9.17 in.)
	Width	210±5mm(8.27 in.)
	Container Height	646±5mm(25.43 in.)
	Total Height	681±5mm(26.81 in.)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	1300.0 Ah	(100hr, 13.0A, 1.80V/cell)
	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	875.0 Ah	(5hr, 175.0A, 1.75V/cell)
	771.0 Ah	(3hr, 257.0A, 1.75V/cell)
	558.0Ah	(1hr, 558.0A, 1.65V/cell)
Max. Discharge Current (5s)		8000A
Internal Resistance(25°C)		Approx.0.45mΩ
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)		250.0A
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 OPzV Battery

2V Voltage

1000AH Capacity

Tubular Gel

20+ Years Design Life



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

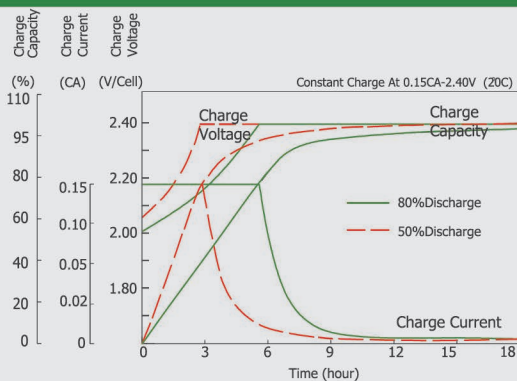
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	446.9	302.2	232.0	158.7	111.2	93.7	44.5	23.3	16.7	12.7	10.9
1.80V/cell	501.0	331.0	252.3	171.0	119.0	100.0	46.0	24.2	17.4	13.0	11.3
1.75V/cell	520.9	342.5	258.1	174.4	121.0	101.7	46.3	24.7	17.8	13.3	11.4
1.70V/cell	543.7	351.1	263.2	177.0	122.7	102.9	47.1	25.2	18.0	13.5	11.6
1.67V/cell	557.9	356.9	268.1	179.9	124.2	103.7	47.5	25.5	18.1	13.7	11.7
1.60V/cell	566.5	362.7	271.2	181.6	125.0	104.6	47.9	25.7	18.3	13.8	11.9

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

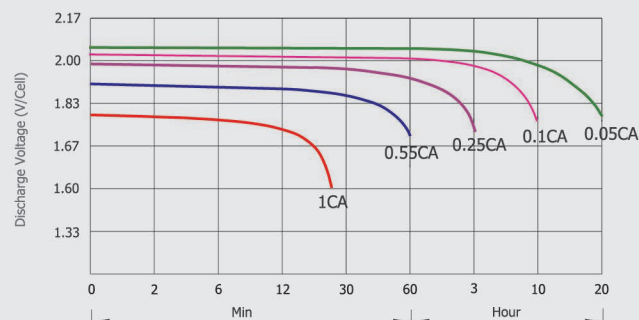
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	862.5	587.2	452.5	311.7	220.5	186.3	89.0	46.6	33.6	25.5	22.0
1.80V/cell	965.0	641.9	489.8	334.6	235.7	198.6	91.9	48.3	34.8	26.1	22.6
1.75V/cell	996.3	656.2	498.4	340.3	239.1	201.4	92.4	49.4	35.7	26.6	22.9
1.70V/cell	1030.5	670.6	507.0	346.0	241.7	203.4	93.8	50.3	36.0	27.0	23.2
1.67V/cell	1050.4	682.1	515.6	348.9	244.0	205.1	94.5	50.7	36.2	27.4	23.5
1.60V/cell	1061.8	687.9	518.4	351.7	245.2	206.3	95.2	51.2	36.4	27.6	23.7

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

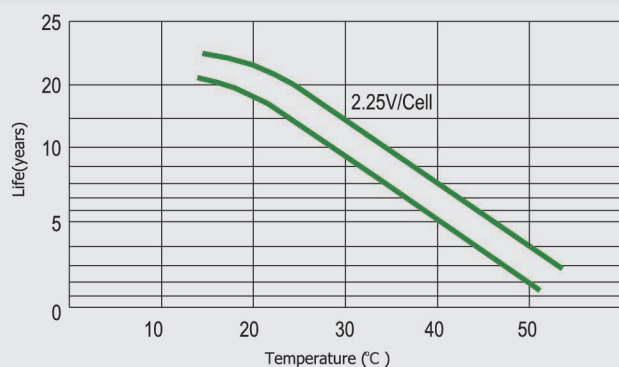
Discharge Characteristics



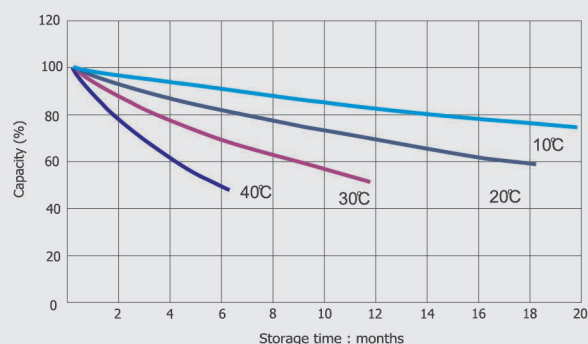
Charging Characteristics



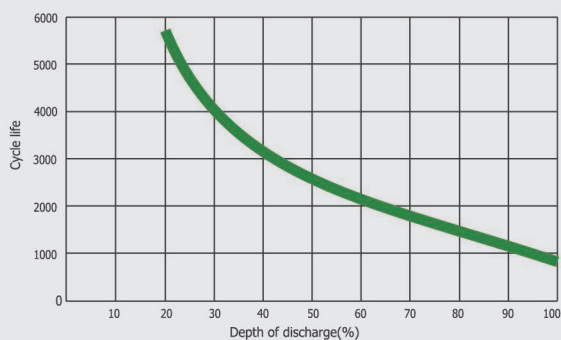
Temperature vs Float Life



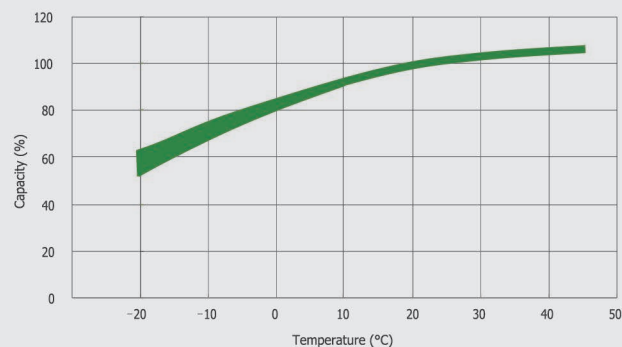
Self Discharge Characteristics



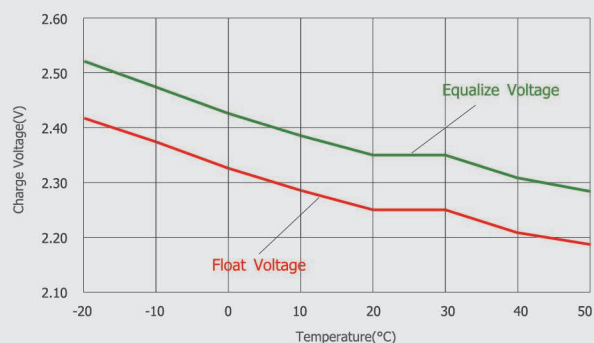
Cycle Life vs Depth of Discharge



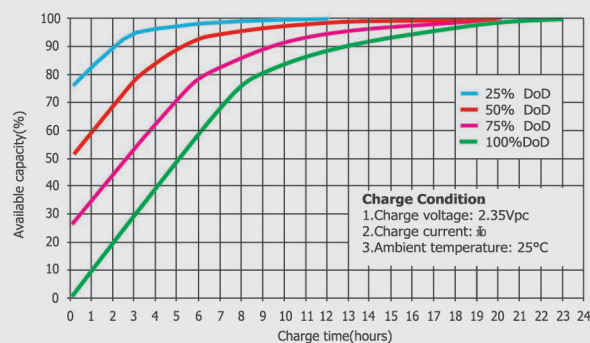
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



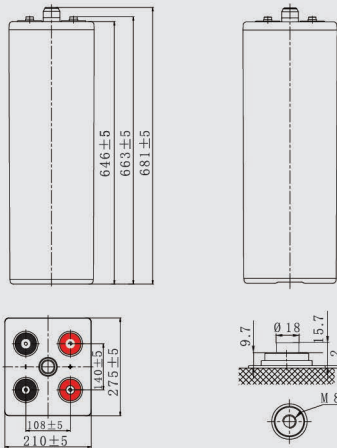
Sohigh BAT-1200AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology, High Quality



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

Specifications

Rated Voltage	2V	
Nominal Capacity	1200Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	275±5mm(10.83 in.)
	Width	210±5mm(8.27 in.)
	Container Height	646±5mm(25.43 in.)
	Total Height	681±5mm(26.81 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1560.0 Ah	(100hr, 15.6A, 1.80V/cell)
	1200.0 Ah	(10hr, 120.0A, 1.80V/cell)
	1046.5 Ah	(5hr, 209.3A, 1.75V/cell)
	929.1Ah	(3hr, 309.7A, 1.75V/cell)
	669.5 Ah	(1hr, 669.5A, 1.67V/cell)
Max. Discharge Current (5s)	9600A	
Internal Resistance(25°C)	Approx.0.43mΩ	
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)	300.0A	
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 OPzV Battery

2V Voltage	1200AH Capacity	Tubular Gel	20+ Years Design Life

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

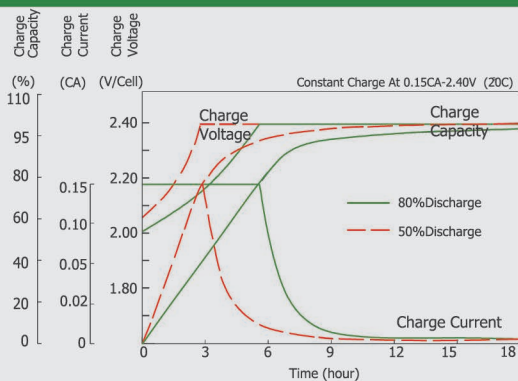
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	536.3	362.7	278.4	190.4	133.5	112.5	53.4	27.9	20.1	15.2	13.1
1.80V/cell	601.2	397.2	302.8	205.2	142.8	120.0	55.3	29.0	20.8	15.6	13.5
1.75V/cell	625.1	411.0	309.7	209.3	145.2	122.1	55.6	29.7	21.4	15.9	13.7
1.70V/cell	652.4	421.4	315.9	212.4	147.3	123.4	56.5	30.2	21.6	16.1	13.9
1.67V/cell	669.5	428.3	321.7	215.8	149.0	124.5	57.0	30.5	21.8	16.4	14.1
1.60V/cell	679.8	435.2	325.5	217.9	150.0	125.5	57.5	30.9	21.9	16.6	14.2

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

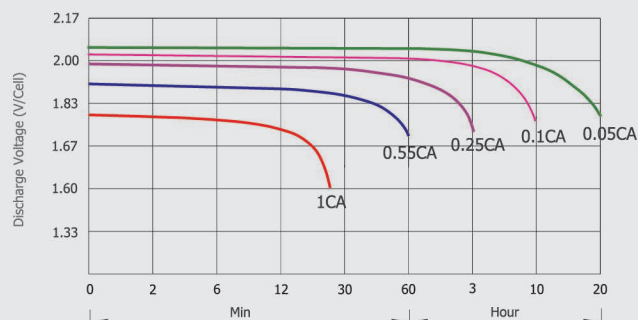
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1035.0	704.6	543.0	374.0	264.6	223.5	106.7	55.9	40.3	30.6	26.4
1.80V/cell	1158.0	770.2	587.7	401.5	282.8	238.3	110.3	58.0	41.8	31.3	27.1
1.75V/cell	1195.6	787.5	598.0	408.3	287.0	241.7	110.9	59.2	42.8	31.9	27.5
1.70V/cell	1236.6	804.8	608.3	415.2	290.1	244.1	112.5	60.3	43.2	32.3	27.9
1.67V/cell	1260.5	818.6	618.7	418.6	292.8	246.2	113.4	60.9	43.5	32.9	28.2
1.60V/cell	1274.1	825.5	622.1	422.1	294.2	247.5	114.3	61.5	43.7	33.2	28.5

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

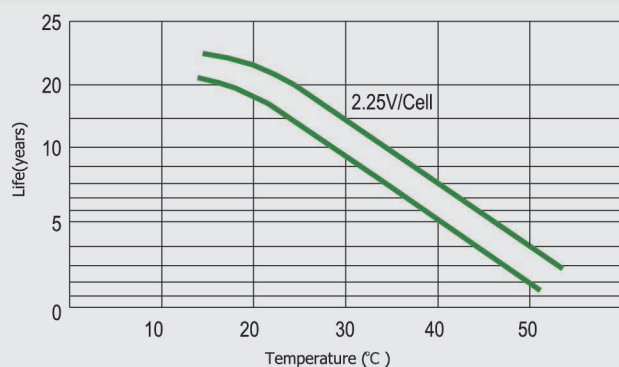
Discharge Characteristics



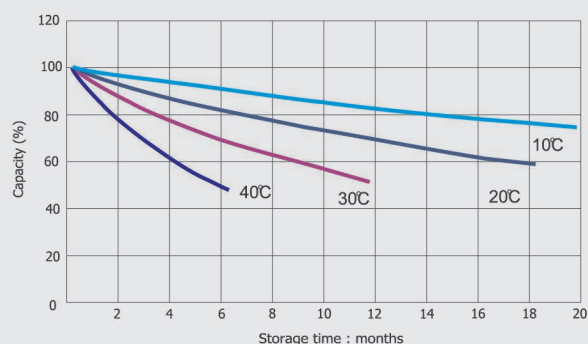
Charging Characteristics



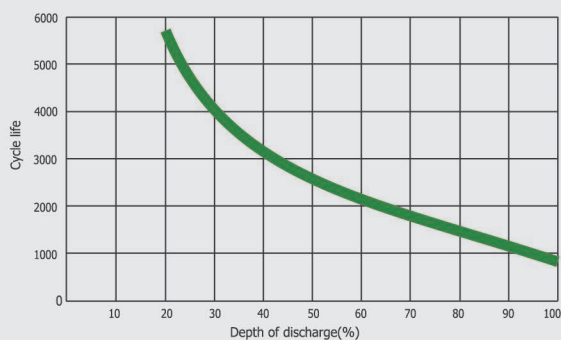
Temperature vs Float Life



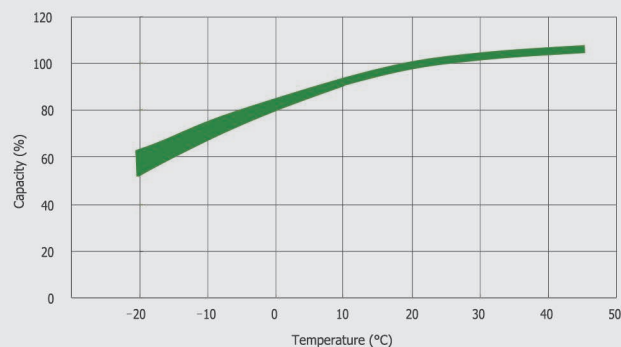
Self Discharge Characteristics



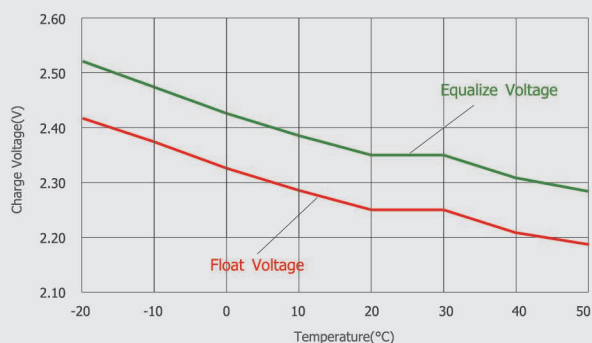
Cycle Life vs Depth of Discharge



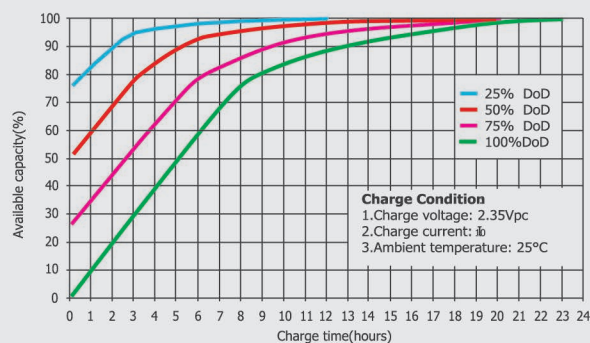
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



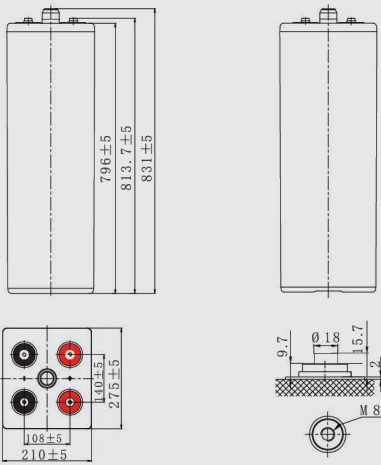
Sohigh BAT-1500AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology. High Quality



Dimensions (mm)



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

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	1500AH Capacity	Tubular Gel	20+ Years Design Life

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

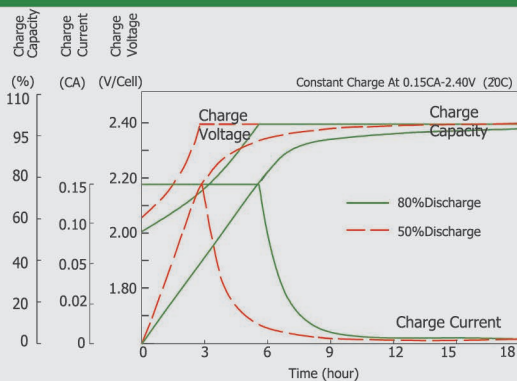
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	670.4	453.3	348.0	238.1	166.9	140.6	66.8	34.9	25.1	19.0	16.4
1.80V/cell	751.5	496.5	378.5	256.5	178.5	150.0	69.1	36.3	26.0	19.5	16.9
1.75V/cell	781.4	513.8	387.1	261.6	181.5	152.6	69.5	37.1	26.7	19.9	17.1
1.70V/cell	815.5	526.7	394.8	265.5	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)

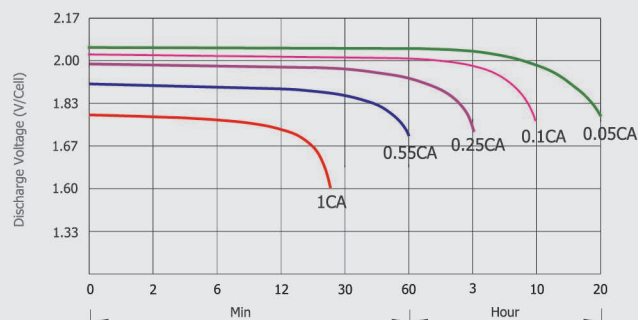
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1293.8	880.7	678.8	467.5	330.7	279.4	133.4	69.9	50.4	38.2	33.0
1.80V/cell	1447.5	962.8	734.7	501.8	353.6	297.9	137.8	72.5	52.2	39.2	33.9
1.75V/cell	1494.5	984.4	747.5	510.4	358.7	302.1	138.6	74.0	53.5	39.9	34.4
1.70V/cell	1545.7	1006.0	760.4	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.

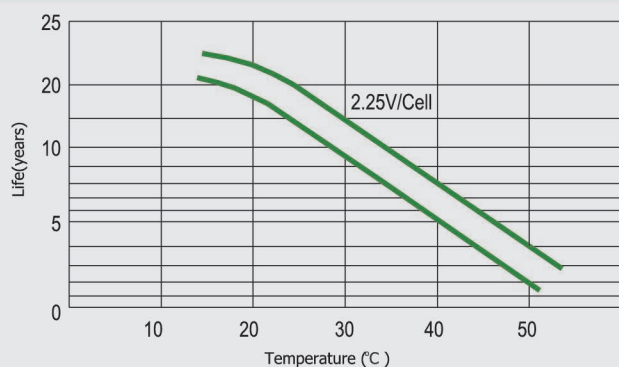
Discharge Characteristics



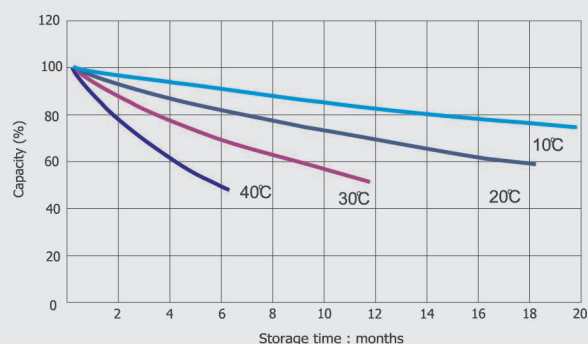
Charging Characteristics



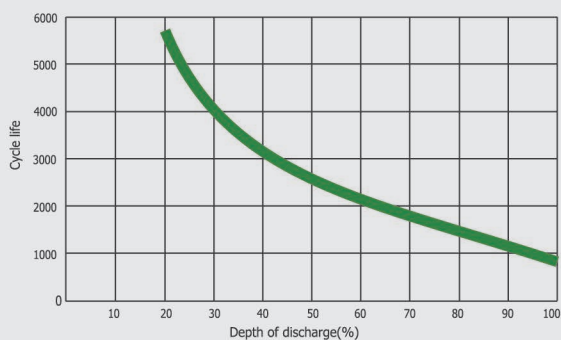
Temperature vs Float Life



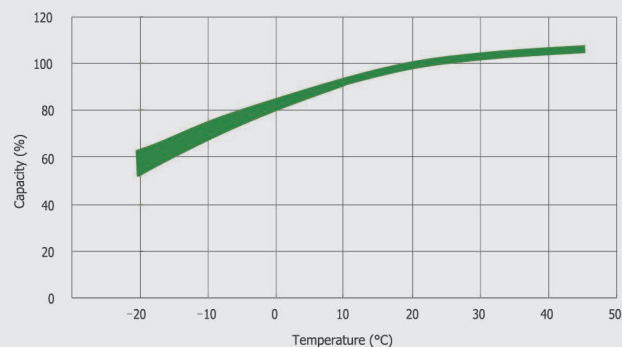
Self Discharge Characteristics



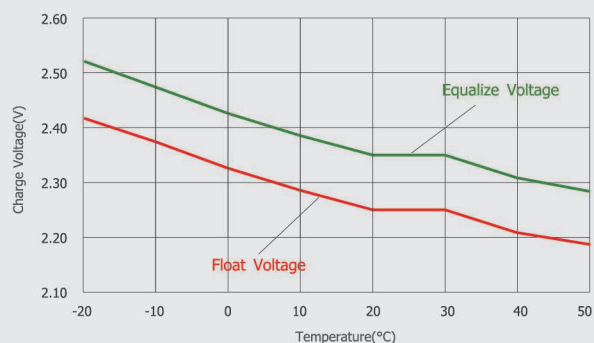
Cycle Life vs Depth of Discharge



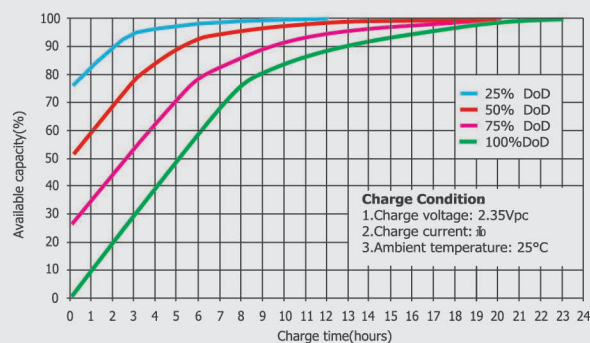
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



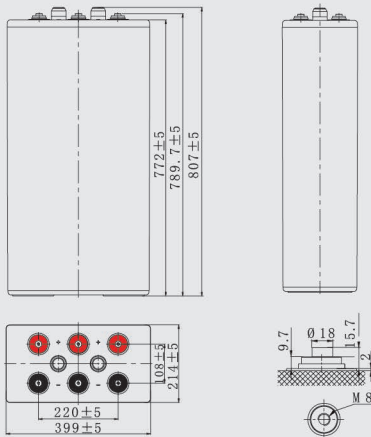
Sohigh BAT-2000AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology. High Quality



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

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 OPzV Battery

2V Voltage

2000AH Capacity

Tubular Gel

20+ Years Design Life



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

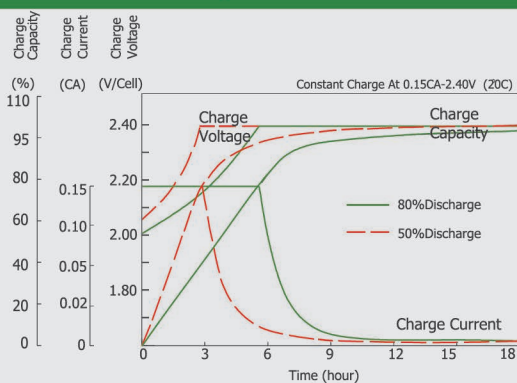
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	893.8	604.4	464.0	317.4	222.5	187.4	89.0	46.5	33.5	25.4	21.9
1.80V/cell	1002.0	662.0	504.7	342.0	238.0	200.0	92.1	48.3	34.7	26.0	22.5
1.75V/cell	1041.9	685.0	516.1	348.9	242.0	203.4	92.7	49.4	35.6	26.5	22.8
1.70V/cell	1087.4	702.3	526.4	354.0	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)

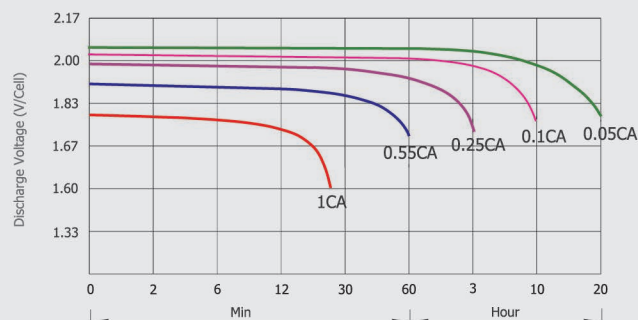
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1725.0	1174.3	905.1	623.4	440.9	372.6	177.9	93.2	67.2	51.0	44.0
1.80V/cell	1930.0	1283.7	979.5	669.1	471.4	397.1	183.8	96.6	69.6	52.2	45.2
1.75V/cell	1992.6	1312.5	996.7	680.6	478.3	402.9	184.8	98.7	71.3	53.2	45.9
1.70V/cell	2060.9	1341.3	1013.9	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.

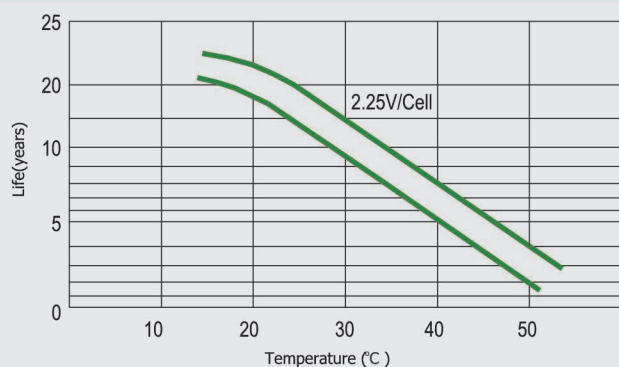
Discharge Characteristics



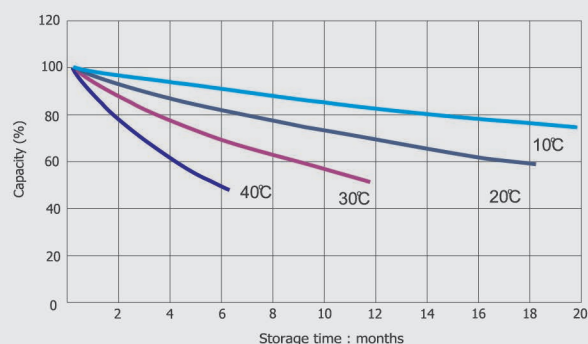
Charging Characteristics



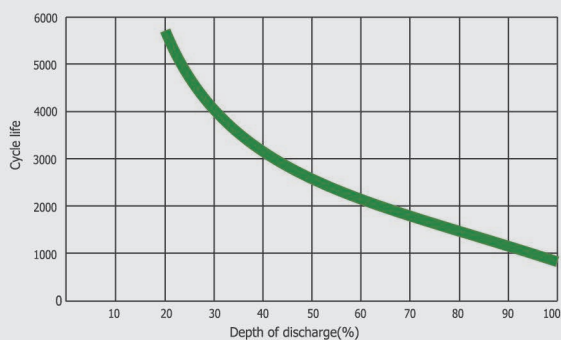
Temperature vs Float Life



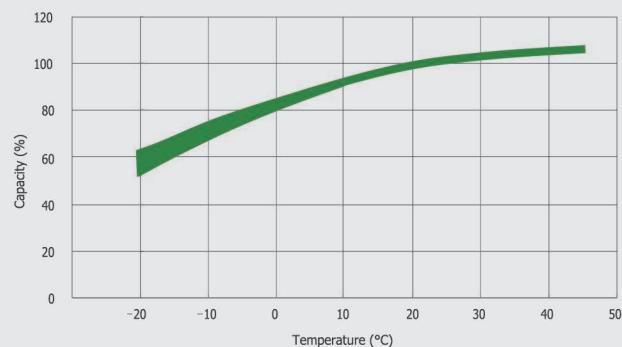
Self Discharge Characteristics



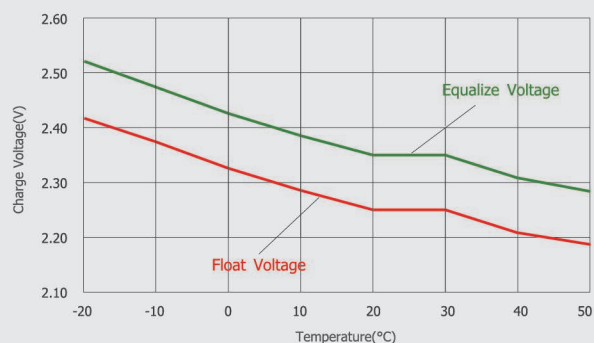
Cycle Life vs Depth of Discharge



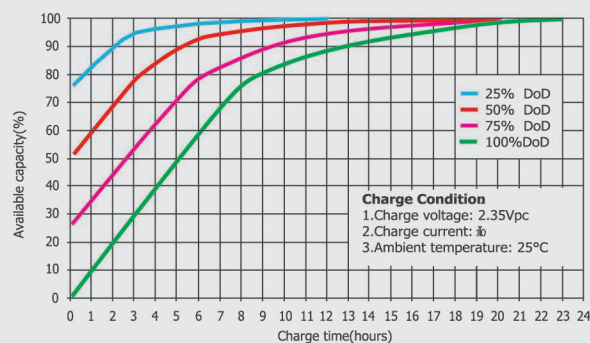
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



Sohigh BAT-2500AH-OPzV

Solar OPzV Battery

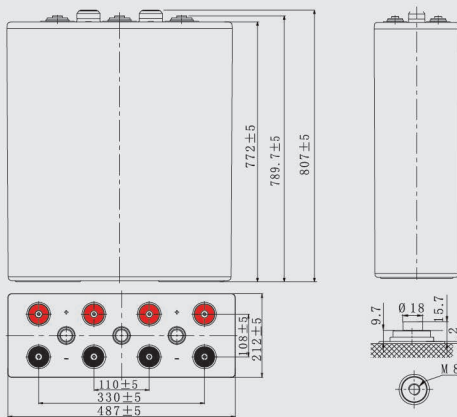
Sohigh Solar
High Technology, High Quality



Specifications

Rated Voltage		2V
Nominal Capacity		2500Ah (C ₁₀ , 1.80V/cell)
Dimension	Length	487±5mm(19.17 in.)
	Width	212±5mm(8.34 in.)
	Container Height	772±5mm(30.39 in.)
	Total Height	807±5mm(31.77 in.)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	3250.0 Ah	(100hr, 32.5A, 1.80V/cell)
	2500.0 Ah	(10hr, 250.0A, 1.80V/cell)
	2180.5 Ah	(5hr, 436.1A, 1.75V/cell)
	1935.6 Ah	(3hr, 645.2A, 1.75V/cell)
	1394.8 Ah	(1hr, 1394.8A, 1.67V/cell)
Max. Discharge Current (5s)		20000A
Internal Resistance(25°C)		Approx.0.25mΩ
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)		625.0A
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

Solar OPzV Battery

2V Voltage	2500AH Capacity	Tubular Gel	20+ Years Design Life

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

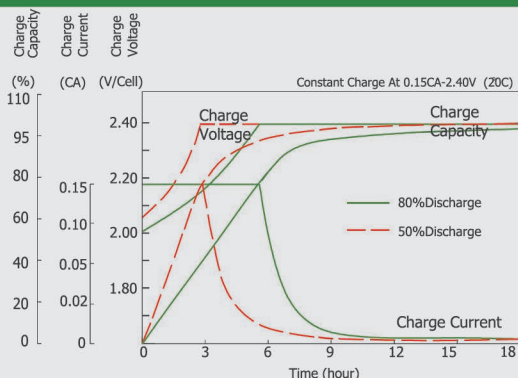
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1117.3	755.5	580.0	396.8	278.1	234.3	111.3	58.2	41.8	31.7	27.3
1.80V/cell	1252.5	827.5	630.8	427.5	297.5	250.0	115.1	60.4	43.4	32.5	28.1
1.75V/cell	1302.3	856.3	645.2	436.1	302.5	254.3	115.8	61.8	44.5	33.2	28.5
1.70V/cell	1359.2	877.9	658.0	442.5	306.8	257.1	117.7	63.0	44.9	33.6	28.9
1.67V/cell	1394.8	892.3	670.2	449.7	310.4	259.3	118.8	63.6	45.3	34.2	29.3
1.60V/cell	1416.2	906.7	678.1	454.0	312.6	261.4	119.8	64.4	45.6	34.6	29.6

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

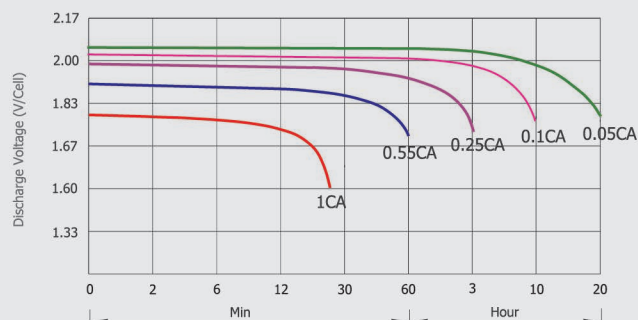
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	2156.3	1467.9	1131.3	779.2	551.2	465.7	222.4	116.4	84.0	63.7	55.0
1.80V/cell	2412.5	1604.6	1224.4	836.4	589.3	496.4	229.7	120.8	87.0	65.3	56.6
1.75V/cell	2490.8	1640.6	1245.9	850.7	597.9	503.6	231.0	123.4	89.2	66.5	57.3
1.70V/cell	2576.2	1676.6	1267.4	865.0	604.3	508.6	234.5	125.6	89.9	67.4	58.1
1.67V/cell	2626.0	1705.4	1288.9	872.2	610.1	512.9	236.3	126.8	90.6	68.5	58.7
1.60V/cell	2654.4	1719.8	1296.0	879.3	613.0	515.7	238.0	128.1	91.1	69.1	59.3

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

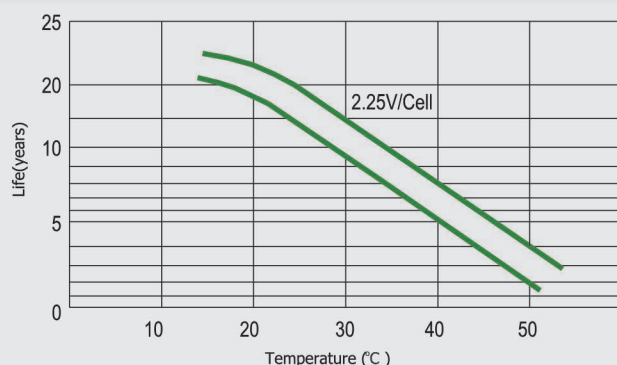
Discharge Characteristics



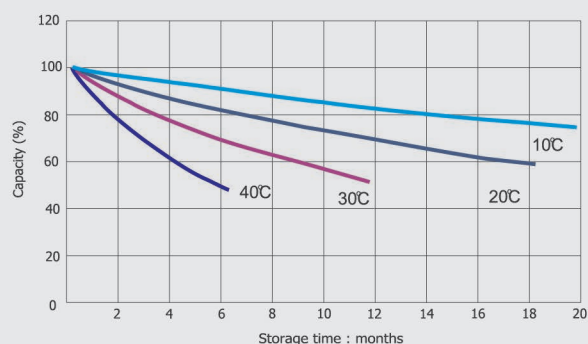
Charging Characteristics



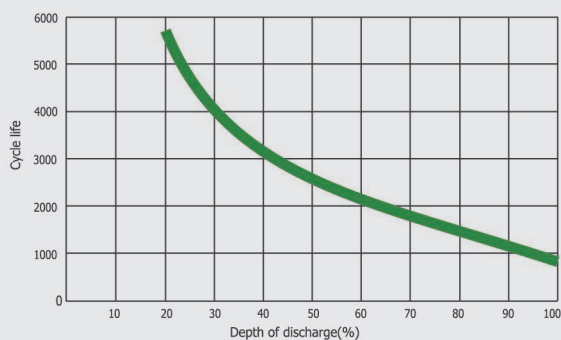
Temperature vs Float Life



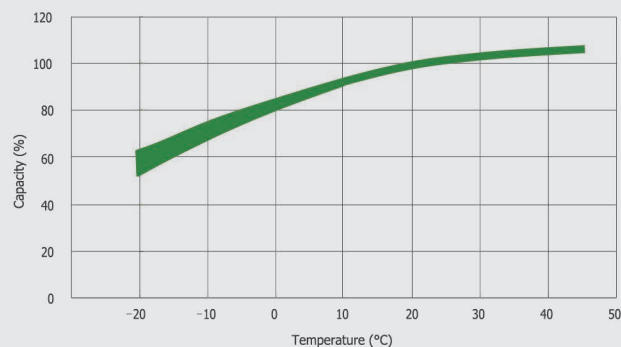
Self Discharge Characteristics



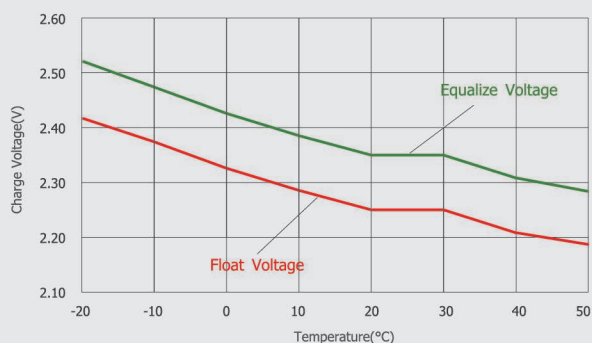
Cycle Life vs Depth of Discharge



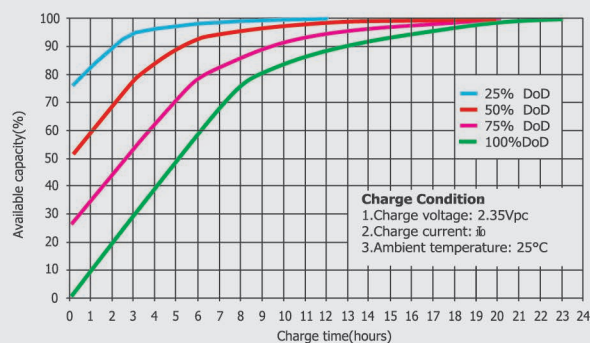
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



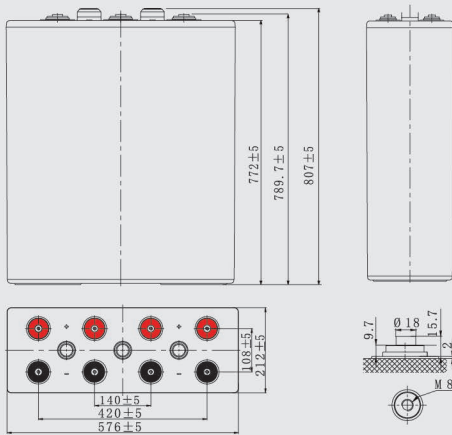
Sohigh BAT-3000AH-OPzV

Solar OPzV Battery

Sohigh Solar
High Technology. High Quality



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

Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	576±5mm(22.68 in.)
	Width	212±5mm(8.34 in.)
	Container Height	772±5mm(30.39 in.)
	Total Height	807±5mm(31.77 in.)
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	3900.0 Ah	(100hr,39.0A,1.80V/cell)
	3000.0 Ah	(10hr,300.0A,1.80V/cell)
	2616.5Ah	(5hr,523.3A,1.75V/cell)
	2322.6 Ah	(3hr,774.2A,1.75V/cell)
	1673.8 Ah	(1hr,1673.8A,1.67V/cell)
Max. Discharge Current (5s)	24000A	
Internal Resistance(25°C)	Approx.0.23mΩ	
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)	750.0A	
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 OPzV Battery

2V Voltage	3000AH Capacity	Tubular Gel	20+ Years Design Life

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

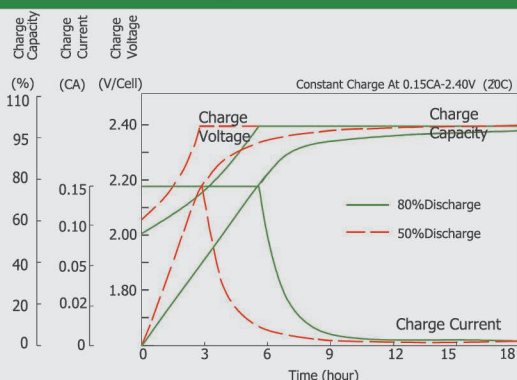
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1340.7	906.7	696.0	476.1	333.7	281.1	133.5	69.8	50.2	38.0	32.8
1.80V/cell	1503.0	993.0	757.0	513.0	357.0	300.0	138.1	72.5	52.1	39.0	33.8
1.75V/cell	1562.8	1027.5	774.2	523.3	363.0	305.1	139.0	74.1	53.4	39.8	34.3
1.70V/cell	1631.1	1053.4	789.7	531.0	368.2	308.6	141.3	75.6	53.9	40.4	34.7
1.67V/cell	1673.8	1070.7	804.3	539.6	372.5	311.1	142.5	76.4	54.4	41.0	35.2
1.60V/cell	1699.4	1088.0	813.7	544.7	375.1	313.7	143.8	77.2	54.8	41.5	35.6

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

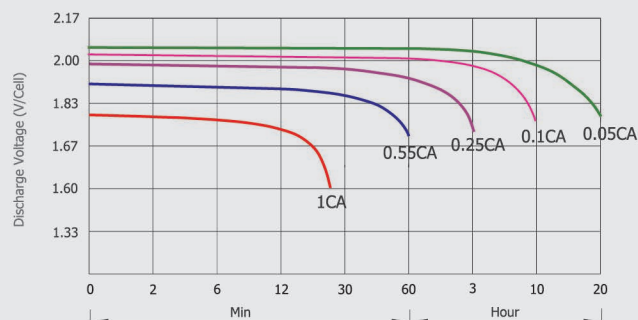
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	2587.6	1761.5	1357.6	935.1	661.4	558.9	266.9	139.7	100.8	76.5	66.1
1.80V/cell	2895.0	1925.6	1469.3	1003.7	707.1	595.7	275.7	144.9	104.4	78.3	67.9
1.75V/cell	2988.9	1968.7	1495.1	1020.9	717.4	604.3	277.2	148.1	107.0	79.8	68.8
1.70V/cell	3091.4	2011.9	1520.9	1038.0	725.2	610.3	281.4	150.8	107.9	80.9	69.7
1.67V/cell	3151.2	2046.4	1546.7	1046.6	732.1	615.4	283.6	152.2	108.7	82.2	70.5
1.60V/cell	3185.3	2063.7	1555.2	1055.2	735.6	618.9	285.6	153.7	109.3	82.9	71.2

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

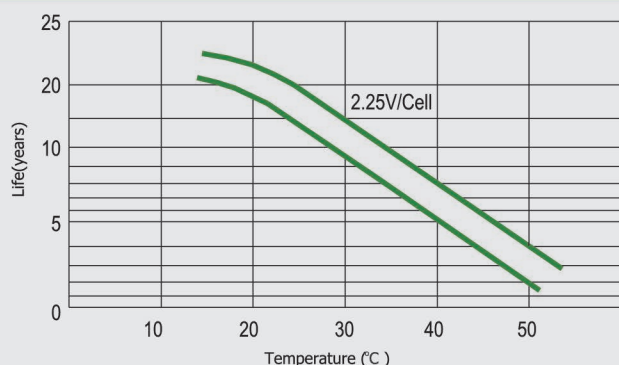
Discharge Characteristics



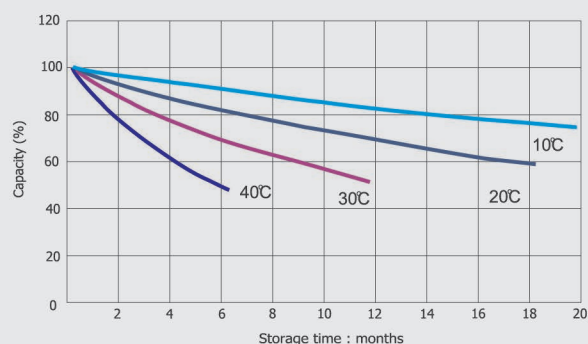
Charging Characteristics



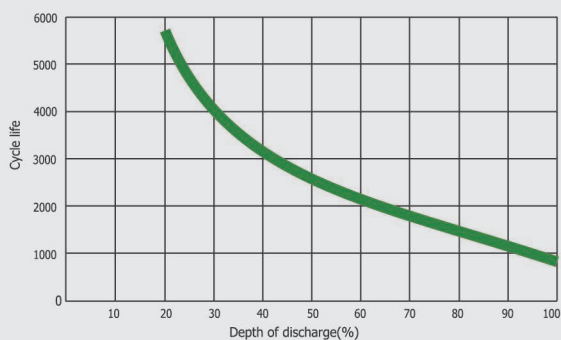
Temperature vs Float Life



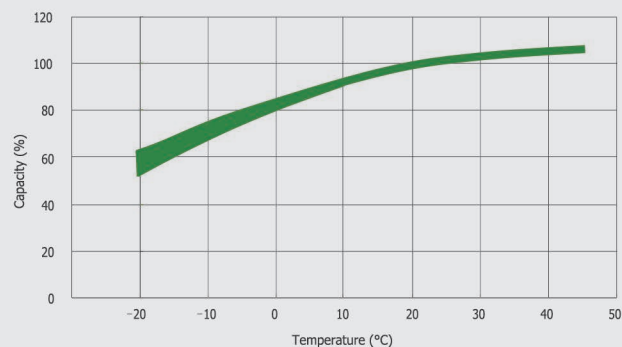
Self Discharge Characteristics



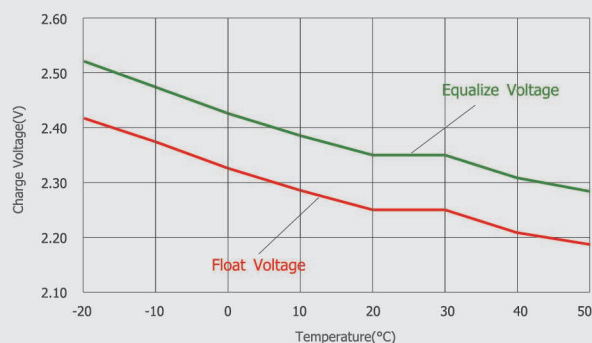
Cycle Life vs Depth of Discharge



Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time

