

# Sohigh BAT-600AH-OPzV

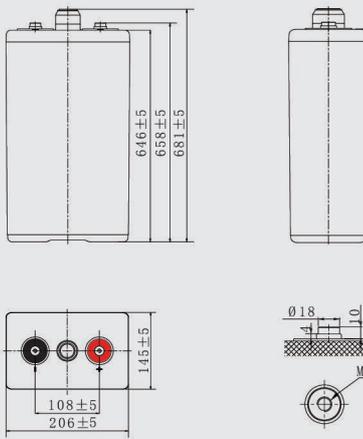
Solar OPzV Battery



## Specifications

Rated Voltage	2V	
Nominal Capacity	600Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	145±5 mm(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)

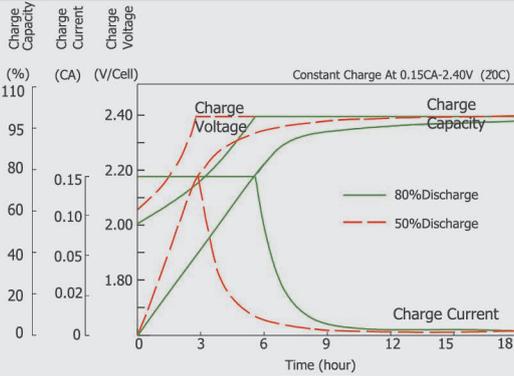
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	268.1	181.3	139.2	95.2	66.7	56.2	26.7	14.0	10.0	7.61	6.56
1.80V/cell	300.6	198.6	151.4	102.6	71.4	60.0	27.6	14.5	10.4	7.80	6.75
1.75V/cell	312.6	205.5	154.8	104.7	72.6	61.0	27.8	14.8	10.7	7.96	6.85
1.70V/cell	326.2	210.7	157.9	106.2	73.6	61.7	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)

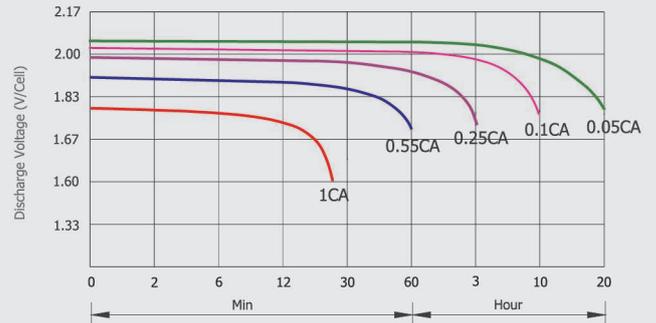
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	517.5	352.3	271.5	187.0	132.3	111.8	53.4	27.9	20.2	15.3	13.2
1.80V/cell	579.0	385.1	293.9	200.7	141.4	119.1	55.1	29.0	20.9	15.7	13.6
1.75V/cell	597.8	393.7	299.0	204.2	143.5	120.9	55.4	29.6	21.4	16.0	13.8
1.70V/cell	618.3	402.4	304.2	207.6	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.

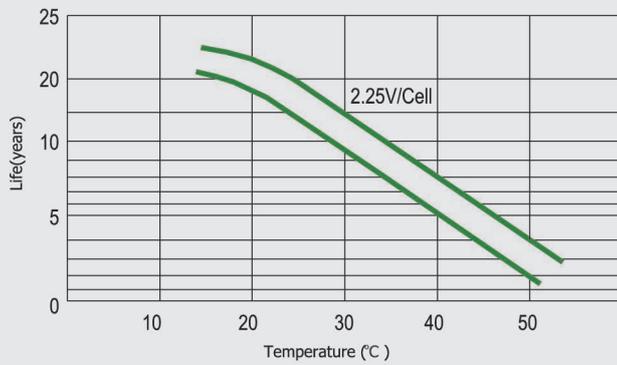
## Discharge Characteristics



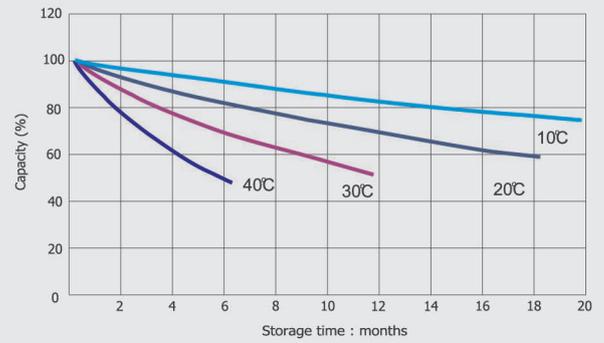
## Charging Characteristics



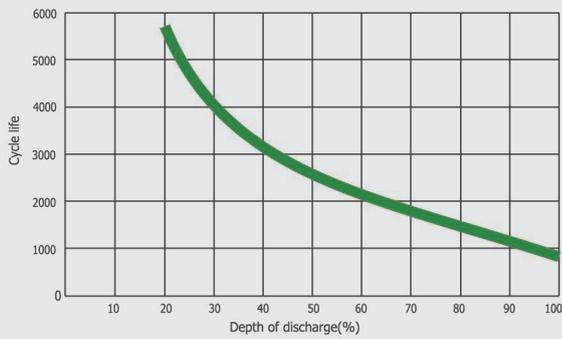
## Temperature vs Float Life



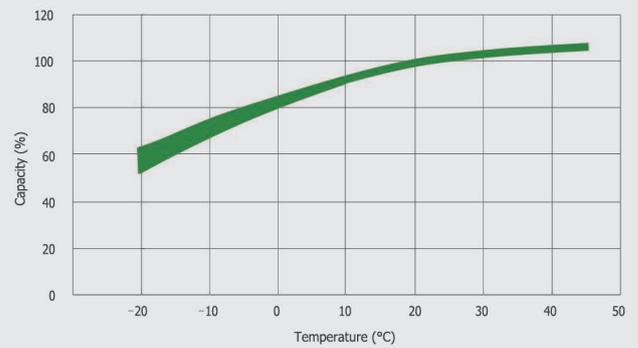
## Self Discharge Characteristics



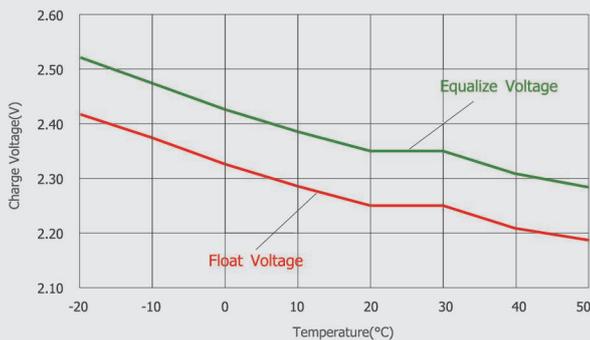
## Cycle Life vs Depth of Discharge



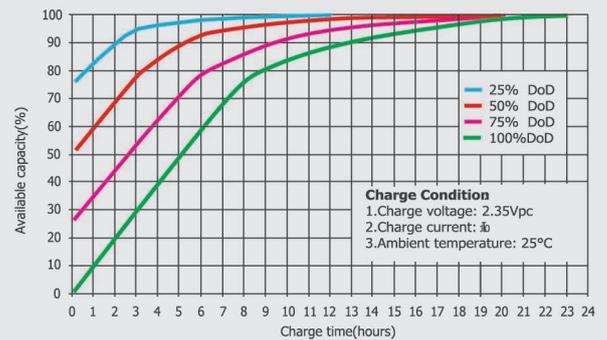
## Capacity vs Temperature



## Charge Voltage Capacity vs Temperature



## Charge Capacity vs Time



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