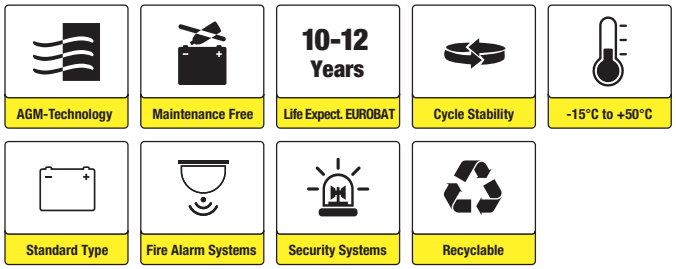
sunbattery®

SB12-65/SB12-65V0 (12V65Ah)



Applications

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Alarm and security system
- Communication power supply
- DC power supply

Certificates

VdS G104073 MH45680 ISO 9001 Conform to IEC60896-21&22

Specifications

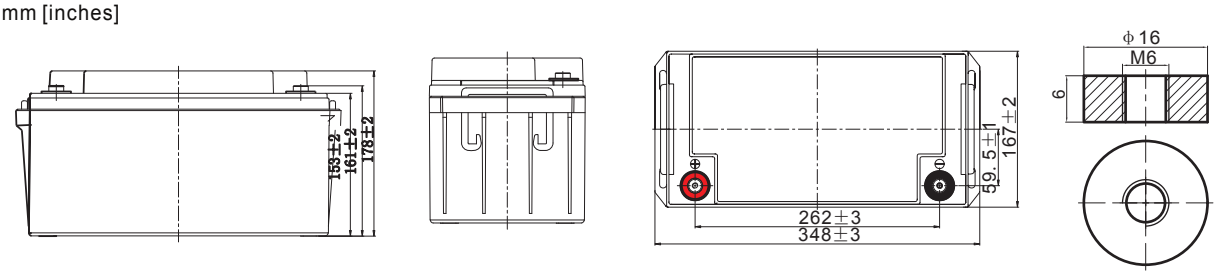
Nominal Voltage	12V	
Nominal Capacity	65.0Ah (C_{10}, 1.80V/cell)	
Approx. Weight	21.3kg	
Terminal	M6	
Container Material	ABS UL94 HB/UL94 V0	
Rated Capacity (25°C)	65.0Ah/3.25A, 20hr, 1.80V/cell	
	65.0Ah/6.50A, 10hr, 1.80V/cell	
	59.0Ah/11.8A, 5hr, 1.75V/cell	
	54.0Ah/18.0A, 3hr, 1.75V/cell	
	41.4Ah/41.4A, 1hr, 1.60V/cell	
Max. Discharge Current	780A (5s)	
Internal Resistance / Impedance (1kHz)	Approx. 7.0mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	Charge:	0-40°C
	Storage:	-15~40°C

Nominal Oper. Temp. R.	25±3°C	
Cycle Use	Initial Charging Current less than 19.5A.	
	Voltage 14.4V~15.0V at 25°C.	
	Temperature Coefficient -30mV/°C.	
Standby Use	No limit on Initial Charging Current.	
	Voltage 13.5V~13.8V at 25°C Temp.	
	Coefficient -20mV/°C	
Capacity affected by Temp.	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	SB batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Life Expectancy	10-12 years according to EUROBAT	

Dimensions

M6 Terminal

Unit: mm [inches]



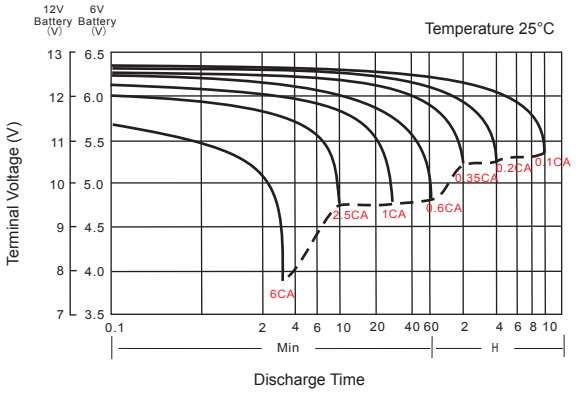
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	96.2	83.4	65.6	58.6	42.9	36.3	22.1	16.2	12.7	11.1	9.74	7.49	6.21	3.20
1.80V/cell	109.2	94.5	74.1	63.8	45.4	37.6	22.8	17.6	13.6	11.6	10.5	7.88	6.50	3.25
1.75V/cell	118.4	102.3	80.0	65.1	47.1	39.5	24.1	18.0	13.8	11.8	10.5	7.92	6.57	3.30
1.70V/cell	126.2	108.6	84.9	66.4	48.0	40.3	24.5	18.3	14.1	12.0	10.6	8.04	6.63	3.35
1.65V/cell	130.2	111.8	87.2	67.4	48.7	40.8	24.9	18.5	14.3	12.3	10.7	8.16	6.71	3.40
1.60V/cell	134.7	115.3	89.4	68.4	49.4	41.4	25.3	18.7	14.5	12.4	10.7	8.26	6.79	3.45

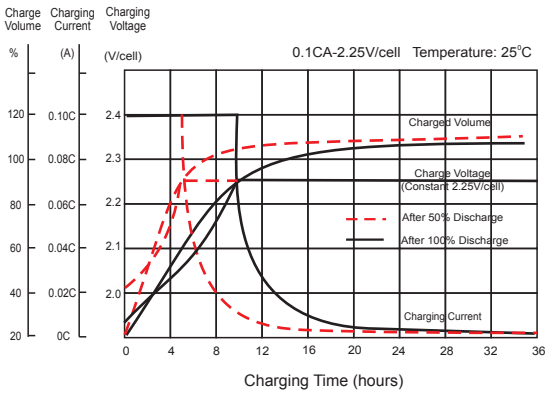
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10	20h
1.85V/cell	180.9	157.9	124.7	112.0	82.4	70.2	43.0	31.7	25.0	21.8	19.3	14.9	12.3	6.56
1.80V/cell	202.4	176.6	139.5	121.0	86.8	72.3	44.2	34.3	26.6	22.8	20.6	15.6	12.9	6.78
1.75V/cell	216.0	188.5	148.9	122.5	89.4	75.6	46.4	34.8	27.0	23.1	20.7	15.6	13.0	6.84
1.70V/cell	227.1	198.1	156.5	123.9	90.5	76.7	47.1	35.4	27.3	23.4	20.8	15.9	13.1	6.91
1.65V/cell	230.7	201.4	159.1	124.8	91.3	77.4	47.6	35.6	27.7	23.8	20.8	16.0	13.3	6.99
1.60V/cell	234.0	204.2	161.3	125.4	91.8	78.0	48.0	35.7	27.9	24.1	20.9	16.2	13.4	7.06

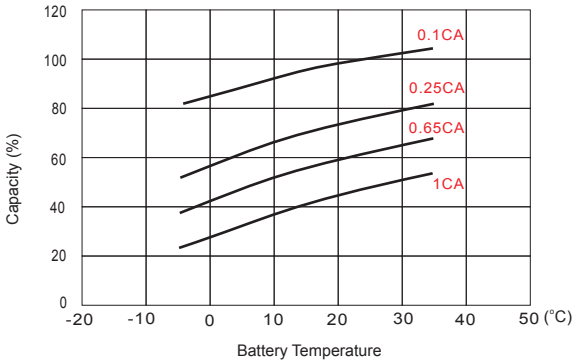
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life