



# SB12-100H FT V0 (12V100Ah)

AGM-Technology	Maintenance Free	10-12 Years Life Expect. EUROBAT	Cycle Stability	-15°C to +50°C	
Standard Type	UPS	Telecommunications	Emergency Lighting	Flame Retardant	Recyclable

## 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



## Specifications

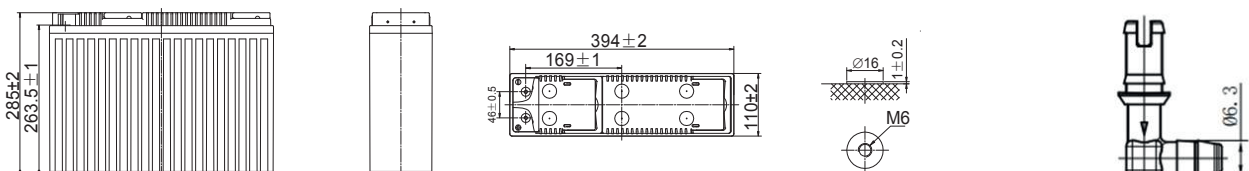
<b>Nominal Voltage</b>	12V	<b>Nominal Oper. Temp. R.</b>	25±3°C
<b>Nominal Capacity</b>	100Ah (C <sub>10</sub> , 1.80V/cell)	<b>Cycle Use</b>	Initial Charging Current less than 30.0A. Voltage 14.7V +1% at 25°C. Temperature Coefficient -30mV/°C.
<b>Approx. Weight</b>	31.5kg	<b>Standby Use</b>	No limit on Initial Charging Current. Voltage 13.65V +1% at 25°C Temp. Coefficient -20mV/°C
<b>Terminal</b>	M6	<b>Capacity affected by Temp.</b>	40°C            103% 25°C            100% 0°C              86%
<b>Container Material</b>	ABS UL94 V0	<b>Self Discharge</b>	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.
<b>Rated Capacity (25°C)</b>	105.4Ah/5.27A, 20hr, 1.80V/cell 100.0Ah/10.0A, 10hr, 1.80V/cell 96.8Ah/12.1A, 8hr, 1.75V/cell 86.5Ah/17.3A, 5hr, 1.75V/cell 66.4Ah/66.4A, 1hr, 1.60V/cell	<b>Life Expectancy</b>	10-12 years according to EUROBAT
<b>Max. Discharge Current</b>	1000A (5s)		
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 5.5mΩ		
<b>Operating Temp. Range</b>	Discharge:        -15~50°C Charge:            0~40°C Storage:           -15~40°C		

## Dimensions

### ■ M6 Terminal

Unit: mm | Dimensions: 394 Length X 110 Width X 285 Height (285 Height incl. Terminal)

Drawing of the plug for central degassing:





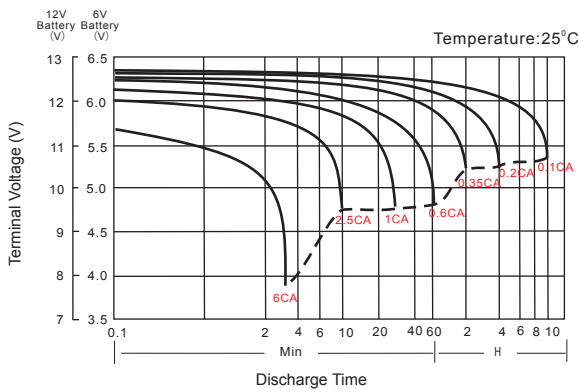
### Constant Current Discharge (Amperes) at 25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	128.1	82.7	52.2	31.3	23.6	18.8	15.7	11.1	9.32	4.91
1.80V/cell	149.0	93.6	57.7	34.1	25.6	20.3	16.9	11.9	10.0	5.27
1.75V/cell	157.6	97.8	59.9	35.1	26.2	20.8	17.3	12.1	10.1	5.29
1.70V/cell	166.6	102.1	62.1	36.2	27.0	21.3	17.7	12.3	10.2	5.38
1.67V/cell	171.8	104.7	63.4	36.8	27.4	21.6	17.9	12.4	10.4	5.48
1.60V/cell	184.1	110.6	66.4	38.4	28.4	22.3	18.5	12.7	10.6	5.58

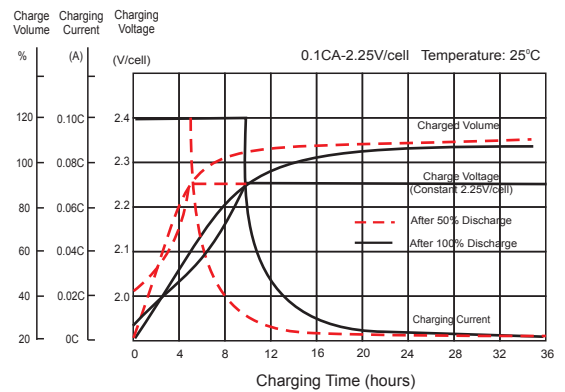
### Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	246.1	159.9	101.4	61.2	46.3	37.0	31.0	21.9	18.4	9.89
1.80V/cell	283.2	179.3	111.5	66.3	49.9	39.7	33.2	23.4	19.6	10.4
1.75V/cell	296.5	185.8	114.8	67.9	51.0	40.6	33.9	23.8	19.8	10.5
1.70V/cell	309.8	192.2	118.2	69.7	52.3	41.4	34.6	24.2	20.1	10.7
1.67V/cell	317.8	196.0	120.0	70.6	52.9	41.9	34.9	24.4	20.3	10.7
1.60V/cell	334.3	204.5	124.7	73.0	54.5	43.1	35.8	24.9	20.6	10.9

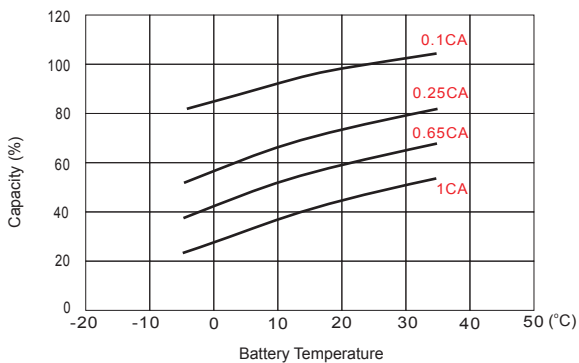
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

