sunbattery®

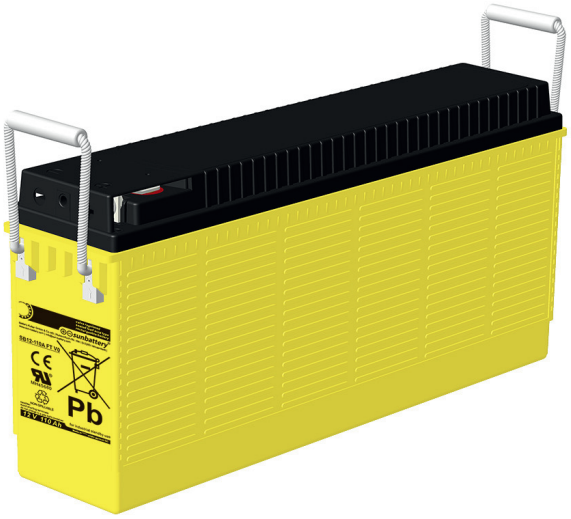
SB12-110A FT V0 (12V106Ah)

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

MH45680 · ISO 9001 Conform to IEC60896-21&22

Specifications

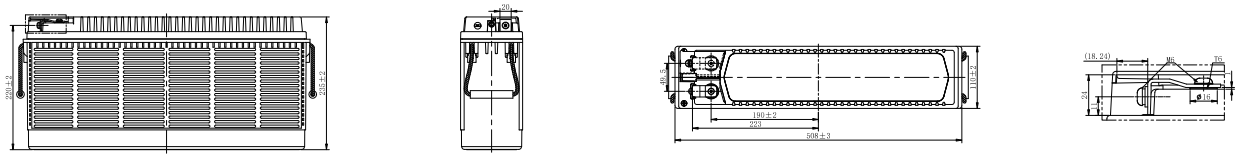
Nominal Voltage	12V	
Nominal Capacity	100Ah (C_{10}, 1.80V/cell)	
Approx. Weight	35.0kg	
Terminal	M6	
Container Material	ABS UL94 V0	
Rated Capacity (25°C)	106.0Ah/5.30A, 20hr, 1.80V/cell	
	100.0Ah/10.0A, 10hr, 1.80V/cell	
	96.8Ah/12.1A, 8hr, 1.75V/cell	
	87.0Ah/17.4A, 5hr, 1.75V/cell	
	64.3Ah/64.3A, 1hr, 1.60V/cell	
Max. Discharge Current	1000A (5s)	
Internal Resistance / Impedance (1kHz)	Approx. 5.5mΩ	
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 30.0A.	
	Voltage 14.7V +-1% at 25°C.	
	Temperature Coefficient -30mV/°C.	
Standby Use	No limit on Initial Charging Current.	
	Voltage 13.65V +-1% 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 | Dimensions: 508 Length X 110 Width X 235 Height (235 Height incl. Terminal)



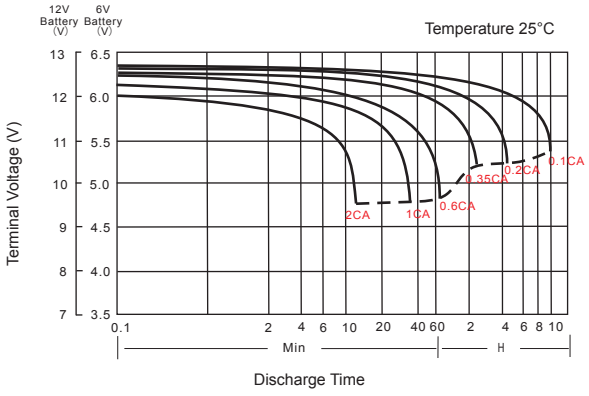
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	144.6	127.2	114.0	91.6	69.6	56.3	33.6	24.7	19.9	16.7	14.5	11.5	9.56	5.07
1.80V/cell	168.0	146.8	127.2	99.0	74.3	59.5	34.8	25.7	20.5	17.2	14.8	11.9	10.0	5.30
1.75V/cell	185.4	158.0	133.2	103.2	76.8	61.4	35.6	26.1	20.8	17.4	15.1	12.1	10.1	5.35
1.70V/cell	197.4	165.6	138.6	106.0	78.8	62.8	36.2	26.5	21.1	17.6	15.3	12.2	10.2	5.38
1.67V/cell	206.4	171.2	144.0	108.4	80.1	63.7	36.6	26.7	21.3	17.8	15.4	12.3	10.3	5.41
1.60V/cell	215.4	176.0	146.4	110.6	80.9	64.3	37.1	27.0	21.5	18.1	15.6	12.5	10.4	5.44

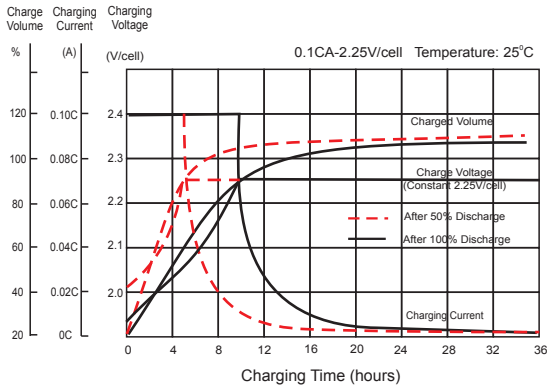
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	270.0	239.9	217.2	176.4	135.2	109.7	65.8	48.6	39.3	33.1	28.7	22.9	19.1	10.1
1.80V/cell	310.0	273.2	238.8	187.8	143.1	115.3	67.7	50.4	40.3	33.9	29.3	23.6	20.0	10.6
1.75V/cell	336.7	290.5	247.7	194.2	146.6	118.5	69.0	51.0	40.7	34.2	29.7	23.9	20.2	10.7
1.70V/cell	350.5	300.2	255.8	198.3	149.9	120.8	70.1	51.6	41.2	34.4	30.0	24.2	20.3	10.7
1.67V/cell	365.1	309.1	264.7	202.4	151.7	122.2	70.8	51.9	41.5	34.8	30.2	24.4	20.5	10.8
1.60V/cell	370.4	311.5	265.3	203.8	151.9	122.3	71.1	52.2	41.7	35.2	30.6	24.6	20.7	10.8

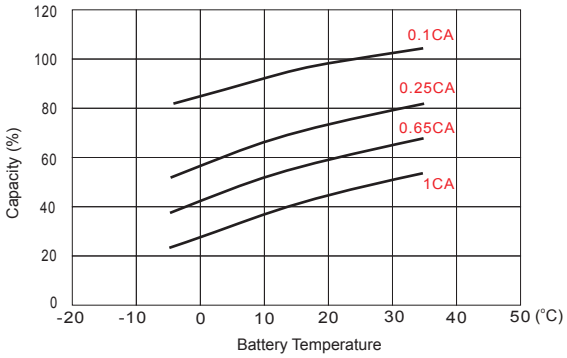
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life