sunbattery®

SB12-90A FT V0 (12V90Ah)

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

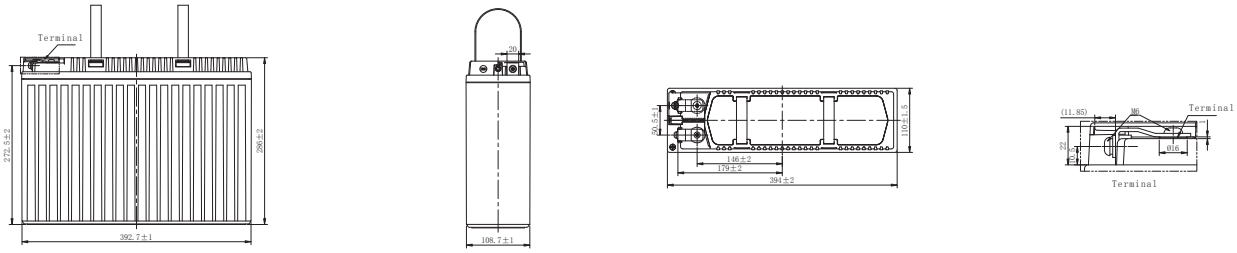
Nominal Voltage	12V	
Nominal Capacity	90.0Ah (C_{10}, 1.80V/cell)	
Approx. Weight	31.0kg	
Terminal	M6	
Container Material	ABS UL94 V0	
Rated Capacity (25°C)	100.0Ah/5.00A, 20hr, 1.80V/cell	
	90.0Ah/9.00A, 10hr, 1.80V/cell	
	88.8Ah/11.1A, 8hr, 1.75V/cell	
	82.0Ah/16.4A, 5hr, 1.75V/cell	
	62.3Ah/62.3A, 1hr, 1.60V/cell	
Max. Discharge Current	900A (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 27.0A.	
	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: 394 Length X 110 Width X 286 Height (286 Height incl. Terminal)



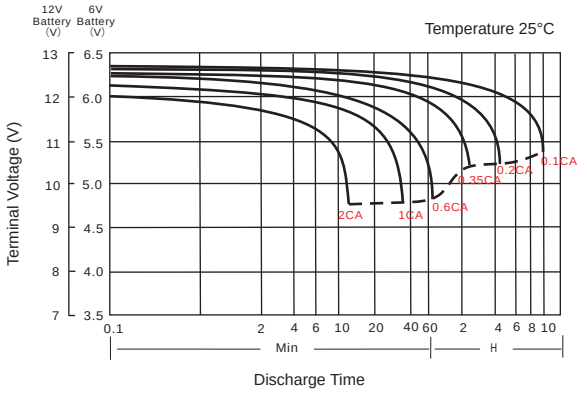
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	136.5	119.2	106.1	85.7	66.8	54.1	31.5	22.9	18.3	15.4	13.4	10.5	8.58	4.78
1.80V/cell	155.1	132.7	116.1	92.1	70.7	56.9	32.8	23.9	19.1	16.2	14.1	10.8	9.00	5.00
1.75V/cell	170.8	144.7	123.4	95.8	73.4	58.6	33.5	24.2	19.4	16.4	14.2	11.1	9.55	5.05
1.70V/cell	183.9	152.9	130.0	100.2	75.5	60.1	34.1	24.6	19.7	16.6	14.5	11.3	9.61	5.08
1.67V/cell	192.0	159.3	134.5	102.8	77.1	61.4	34.7	25.0	19.9	16.8	14.6	11.4	9.69	5.11
1.60V/cell	199.6	164.4	137.9	104.9	78.3	62.3	35.3	25.3	20.1	17.0	14.7	11.5	9.74	5.14

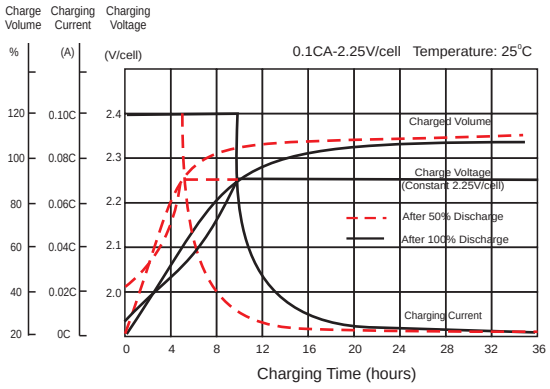
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	260.0	228.9	205.2	166.9	131.0	106.2	62.3	45.5	36.6	30.9	26.9	21.2	18.2	9.66
1.80V/cell	293.2	253.6	223.2	178.9	138.1	111.5	64.8	47.3	37.9	32.4	28.2	22.0	19.0	10.1
1.75V/cell	320.6	274.7	236.0	185.1	142.9	114.6	65.9	48.0	38.5	32.6	28.5	22.2	19.1	10.1
1.70V/cell	340.7	287.0	246.0	191.8	145.8	116.7	66.9	48.7	38.9	32.9	28.9	22.6	19.2	10.2
1.67V/cell	350.1	294.6	251.3	194.5	147.5	118.1	67.7	49.1	39.2	33.1	29.2	22.8	19.4	10.2
1.60V/cell	356.4	299.1	254.1	196.3	148.2	118.7	68.3	49.5	39.5	33.4	29.5	23.0	19.5	10.3

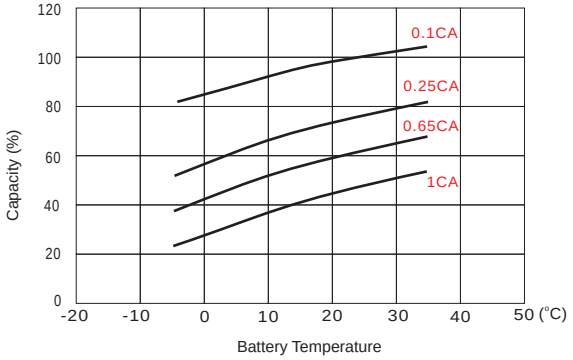
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life