



SB12-90A FT V0 (12V90Ah)

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



Conform to
IEC60896-21&22

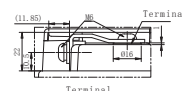
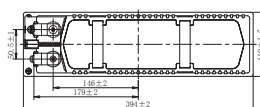
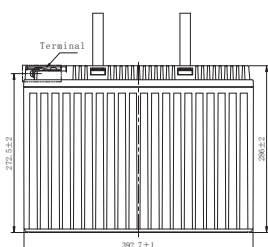
Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	90.0Ah (C ₁₀ , 1.80V/cell)	Cycle Use	Initial Charging Current less than 27.0A. Voltage 14.7V +1% at 25°C. Temperature Coefficient -30mV/°C.
Approx. Weight	31.0kg	Standby Use	No limit on Initial Charging Current. Voltage 13.65V +1% at 25°C Temp. Coefficient -20mV/°C
Terminal	M6	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 V0	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.
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	Life Expectancy	10-12 years according to EUROBAT
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		

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 394 Length X 110 Width X 286 Height (286 Height incl. Terminal)





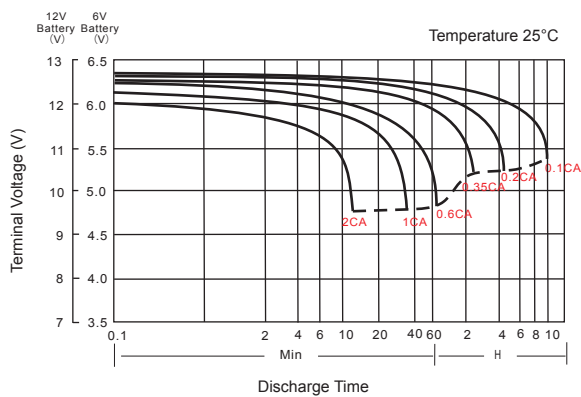
Constant Current Discharge (Amperes) at 25°C

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

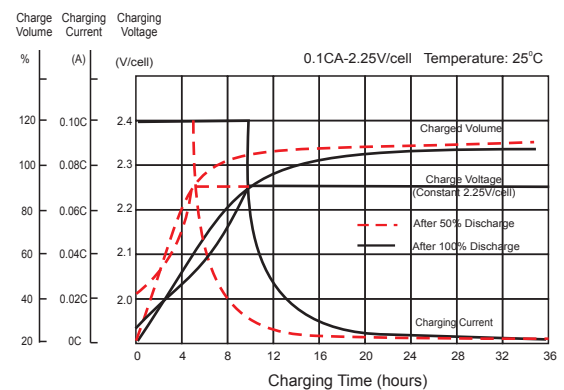
Constant Power Discharge (Watts/cell) at 25°C

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

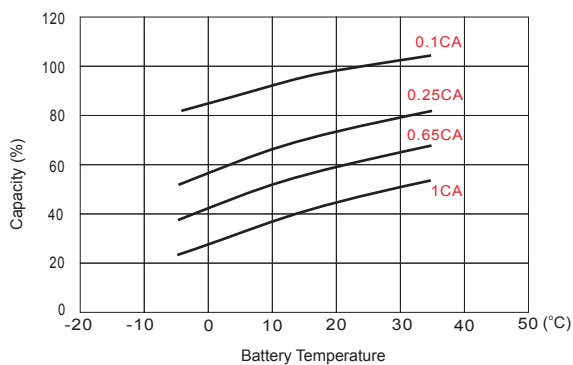
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

