



SB12-180A FT V0 (12V180Ah)



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



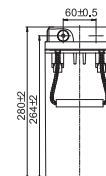
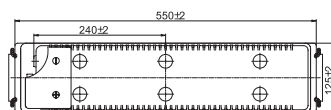
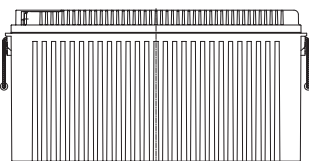
Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	180Ah (C ₁₀ , 1.80V/cell)	Cycle Use	Initial Charging Current less than 54.0A. Voltage 14.7V +1% at 25°C. Temperature Coefficient -30mV/°C.
Approx. Weight	51.2kg	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)	188.0Ah/9.40A, 20hr, 1.80V/cell 180.0Ah/18.0A, 10hr, 1.80V/cell 175.2Ah/21.9A, 8hr, 1.75V/cell 156.5Ah/31.3A, 5hr, 1.75V/cell 118.9Ah/118.9A, 1hr, 1.60V/cell	Life Expectancy	10-12 years according to EUROBAT
Max. Discharge Current	1800A (5s)		
Internal Resistance / Impedance (1kHz)	Approx. 4.2mΩ		
Operating Temp. Range	Discharge: -15~50°C Charge: 0~40°C Storage: -15~40°C		

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 550 Length X 125 Width X 280 Height (280 Height incl. Terminal)





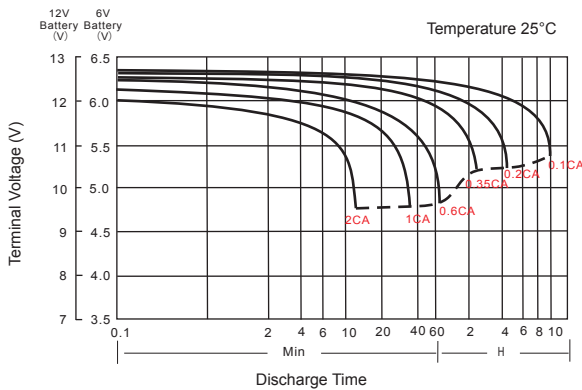
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	252.8	229.4	199.3	163.3	125.9	93.4	56.5	42.6	33.9	28.4	25.5	20.0	17.0	8.90
1.80V/cell	293.8	266.7	222.4	175.6	133.1	103.4	61.5	46.2	36.6	30.6	26.1	21.5	18.0	9.40
1.75V/cell	324.2	282.1	237.1	182.6	137.3	107.2	63.4	47.4	37.6	31.3	26.6	21.9	18.5	9.70
1.70V/cell	345.2	298.2	246.6	188.9	139.9	111.1	65.5	48.8	38.5	32.0	26.9	22.2	18.8	9.80
1.65V/cell	360.9	307.6	251.8	192.7	142.9	113.5	66.5	49.5	39.0	32.4	27.2	22.4	18.9	9.90
1.60V/cell	376.7	329.7	259.1	198.0	145.0	118.9	69.3	51.4	40.4	33.4	27.4	23.0	19.3	10.1

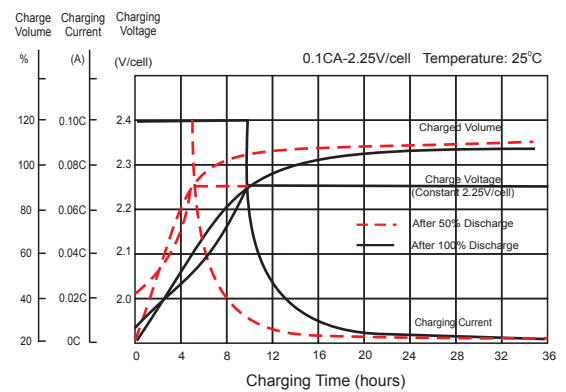
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	472.1	440.5	379.8	314.5	244.5	181.5	110.5	83.6	66.8	55.9	50.6	39.6	33.8	18.0
1.80V/cell	542.2	507.0	417.5	333.0	256.5	199.5	119.6	90.1	71.7	60.1	51.8	42.3	35.9	18.9
1.75V/cell	588.4	530.8	441.0	343.4	262.2	205.4	122.6	92.1	73.3	61.2	52.4	43.0	36.4	19.3
1.70V/cell	612.8	554.6	455.1	353.3	266.1	211.5	125.9	94.3	74.2	62.5	52.9	43.7	37.0	19.5
1.65V/cell	638.3	573.5	462.9	359.8	270.9	214.9	127.5	95.6	75.6	63.1	53.3	44.1	37.3	19.6
1.60V/cell	647.8	598.4	469.7	366.0	272.0	223.2	131.9	98.5	77.8	64.7	53.6	44.9	37.9	19.9

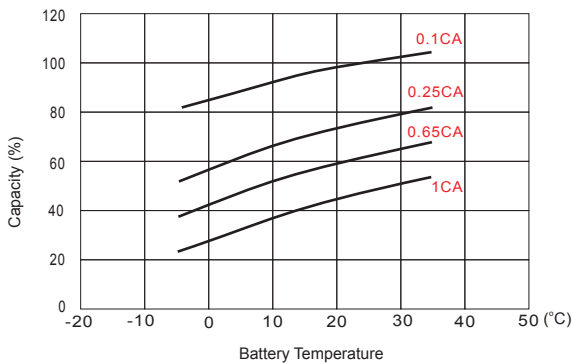
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

