



SBH190-12 (12V188W)



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

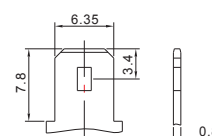
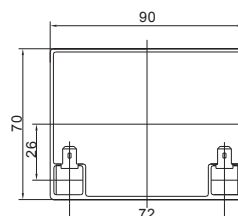
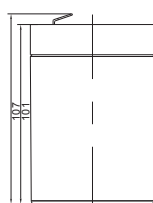
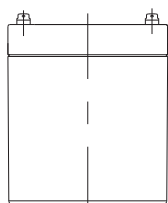
Nominal Voltage	12V	
Nominal Capacity	5.1Ah (C ₁₀ , 9.6V)	
	5.5Ah (C ₂₀ , 9.6V)	
Approx. Weight	1.55kg	
Terminal	T2	
Container Material	ABS UL94 HB	
Nominal Power (20°C / 9.6V/Block)	5 min	271.92W
	10 min	187.56W
	15 min	139.68W
Nominal Power (20°C / 1.6V/Cell)	5 min	45.32W
	10 min	31.26W
	15 min	23.28W
Max. Discharge Current	55A (5s)	
Internal Resistance / Impedance (1kHz)	Approx. 30mΩ	
Nominal Oper. Temp. R.	20±3°C	

Operating Temp. Range	Discharge:	-20~50°C
	Charge:	-10~50°C
	Storage:	-20~50°C
Cycle Use	Initial Charging Current less than 1.65A.	
	Voltage 14.7V +0.1V at 20°C.	
	Temperature Coefficient -30mV/°C.	
Standby Use	No limit on Initial Charging Current.	
	Voltage 13.7V +0.1V at 20°C.	
	Temperature Coefficient -20mV/°C.	
Capacity affected by Temp.	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	SSB batteries may be stored for up to 6 months at 20°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Life Expectancy	6-9 years according to EUROBAT	

Dimensions

■ T2 Terminal

Unit: mm | Dimensions: 90 Length X 70 Width X 101 Height (107 Height incl. Terminal)



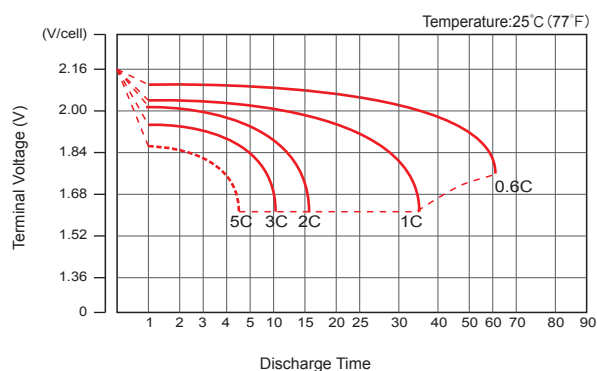
Constant Current Discharge (Amperes) at 20°C

F.V/Time	3min	5min	8min	10min	15min	20min	30min	60min	90min
9.6V	28.69	25.22	20.15	17.27	12.74	10.01	7.136	4.002	2.837
10.0V	26.03	22.88	18.43	15.92	11.92	9.453	6.762	3.814	2.715
10.2V	24.91	21.90	17.69	15.34	11.55	9.201	6.594	3.731	2.665
10.5V	23.07	20.28	16.48	14.38	10.91	8.742	6.319	3.606	2.584
10.8V	21.13	18.58	15.24	13.41	10.36	8.330	6.043	3.470	2.492
11.1V	18.07	15.88	12.98	11.39	8.88	7.235	5.344	3.137	2.280

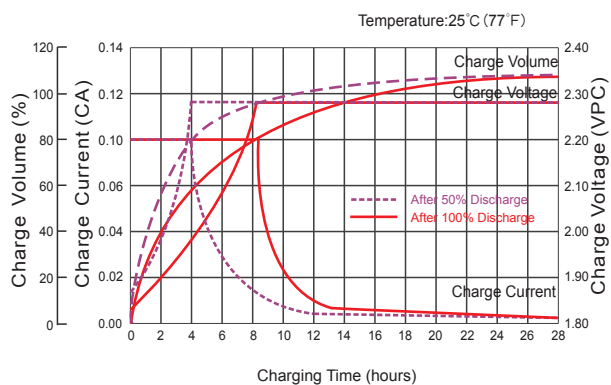
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	3min	5min	8min	10min	15min	20min	30min	60min	90min
9.6V	309.3	271.9	218.0	187.6	139.68	110.64	79.1	45.02	32.22
10.0V	284.2	249.8	202.1	175.4	132.0	105.60	76.2	43.33	31.12
10.2V	274.4	241.2	195.6	170.2	129.24	103.32	74.4	42.64	30.64
10.5V	256.6	225.6	184.3	161.5	123.18	99.42	72.1	41.45	29.85
10.8V	238.3	209.5	172.4	152.3	117.72	95.46	69.7	40.27	29.06
11.1V	207.1	182.0	148.9	130.9	102.3	83.70	62.0	36.64	26.69

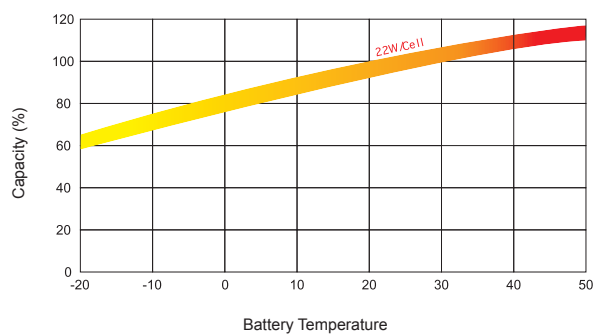
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

