



SBH300-12 (12V307W)



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

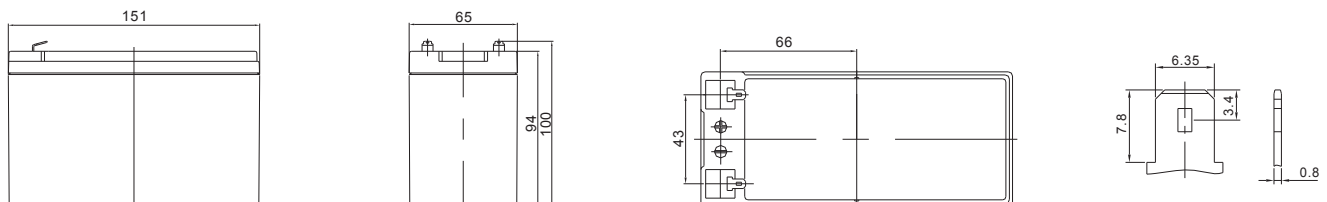
Specifications

Nominal Voltage	12V	Operating Temp. Range	Discharge: -20~50°C
Nominal Capacity	8.5Ah (C ₁₀ , 9.6V) 9.0Ah (C ₂₀ , 9.6V)		Charge: -10~50°C
Approx. Weight	2.45kg		Storage: -20~50°C
Terminal	T2	Cycle Use	Initial Charging Current less than 2.7A. Voltage 14.7V +0.1V at 20°C. Temperature Coefficient -30mV/°C.
Container Material	ABS UL94 HB	Standby Use	No limit on Initial Charging Current. Voltage 13.7V +0.1V at 20°C. Temperature Coefficient -20mV/°C.
Nominal Power	5 min 444.96W (20°C / 9.6V/Block) 10 min 306.96W 15 min 228.60W	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Nominal Power	5 min 74.16W (20°C / 1.6V/Cell) 10 min 51.16W 15 min 38.10W	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.
Max. Discharge Current	90A (5s)	Life Expectancy	6-9 years according to EUROBAT
Internal Resistance / Impedance (1kHz)	Approx. 22mΩ		
Nominal Oper. Temp. R.	20±3°C		

Dimensions

■ T2 Terminal

Unit: mm | Dimensions: 151 Length X 65 Width X 94 Height (100 Height incl. Terminal)



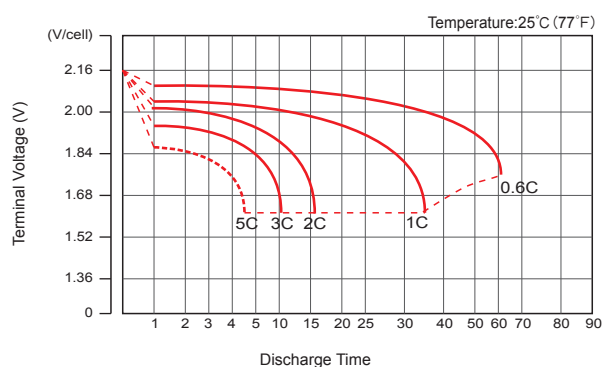
Constant Current Discharge (Amperes) at 20°C

F.V/Time	3min	5min	8min	10min	15min	20min	30min	60min	90min
9.6V	46.94	41.26	32.97	28.26	20.85	16.39	11.68	6.548	4.642
10.0V	42.60	37.44	30.15	26.05	19.50	15.47	11.06	6.241	4.443
10.2V	40.76	35.83	28.95	25.11	18.90	15.06	10.79	6.105	4.360
10.5V	37.75	33.19	26.97	23.53	17.85	14.30	10.34	5.900	4.228
10.8V	34.58	30.40	24.93	21.95	16.95	13.63	9.889	5.679	4.078
11.1V	29.57	25.99	21.24	18.63	14.54	11.84	8.745	5.133	3.730

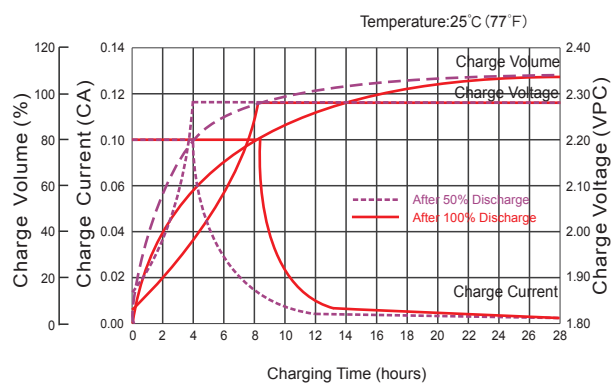
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	3min	5min	8min	10min	15min	20min	30min	60min	90min
9.6V	506.16	444.96	356.76	306.96	228.60	181.02	129.48	73.68	52.72
10.0V	465.06	408.78	330.66	287.04	216.00	172.74	124.68	70.92	50.93
10.2V	449.04	394.74	320.04	278.52	211.50	169.08	121.74	69.78	50.14
10.5V	420.00	369.18	301.50	264.30	201.60	162.66	117.90	67.86	48.84
10.8V	389.88	342.72	282.06	249.18	192.60	156.24	114.00	65.88	47.55
11.1V	338.76	297.78	243.72	214.08	167.40	136.92	101.46	59.958	43.67

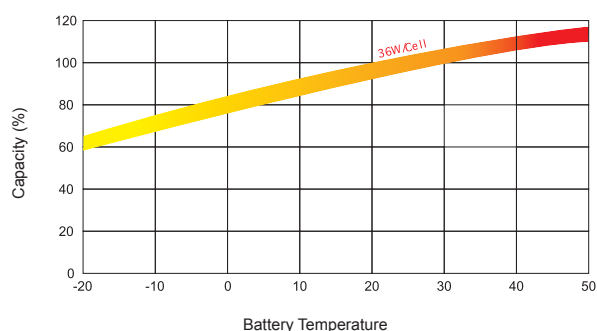
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

