



# SBL125-12HR (12V3046W)



## 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



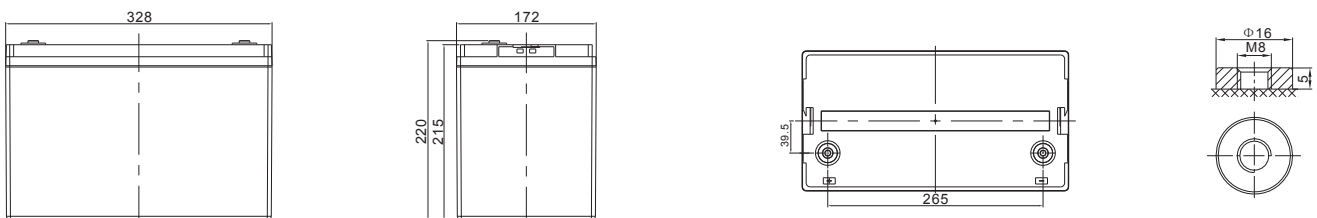
## Specifications

<b>Nominal Voltage</b>	12V	<b>Operating Temp. Range</b>	Discharge:	-20~50°C
<b>Nominal Capacity</b>	100.8Ah (C <sub>10</sub> , 9.6V)		Charge:	-10~50°C
<b>Approx. Weight</b>	30.5kg		Storage:	-20~50°C
<b>Terminal</b>	M8	<b>Cycle Use</b>	Initial Charging Current less than 30A.	
<b>Container Material</b>	ABS UL94 HB		Voltage 14.7V +0.1V at 20°C.	
<b>Nominal Power</b>	5 min 3767.4W	<b>Standby Use</b>	No limit on Initial Charging Current.	
(20°C/ 9.6V/Block)	10 min 3045.6W		Voltage 13.7V +0.1V at 20°C.	
	15 min 2403.0W		Temperature Coefficient -20mV/°C.	
<b>Nominal Power</b>	5 min 627.9W	<b>Capacity affected by Temp.</b>	40°C	103%
(20°C/ 1.6V/Cell)	10 min 507.6W		25°C	100%
	15 min 400.5W		0°C	86%
<b>Max. Discharge Current</b>	1000A (5s)	<b>Self Discharge</b>	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.	
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 5.0mΩ	<b>Life Expectancy</b>	10-12 years according to EUROBAT	
<b>Nominal Oper. Temp. R.</b>	20±3°C			

## Dimensions

### ■ M8 Terminal

Unit: mm | Dimensions: 328 Length X 172 Width X 215 Height (220 Height incl. Terminal)



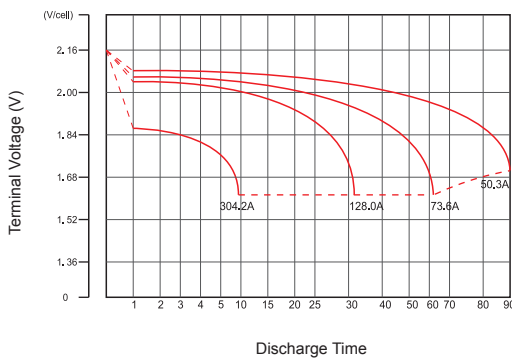
### Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min	3h	5h	8h	10h
9.6V	341.7	298.6	269.9	210.1	171.1	126.1	73.0	52.4	26.65	18.27	12.21	10.08
10.0V	310.1	273.8	249.4	195.9	160.8	119.3	69.6	50.2	26.29	18.06	12.09	9.99
10.2V	296.9	263.2	240.5	190.0	156.3	116.5	68.2	49.3	25.82	17.78	11.92	9.86
10.5V	274.1	245.2	225.4	179.7	148.5	111.5	65.9	47.7	25.20	17.41	11.70	9.69
10.8V	251.2	227.1	210.4	170.1	141.5	106.8	63.5	46.2	24.37	16.91	11.41	9.46
11.1V	215.6	193.4	178.3	146.2	122.8	94.5	57.4	42.1	23.30	16.26	11.03	9.17

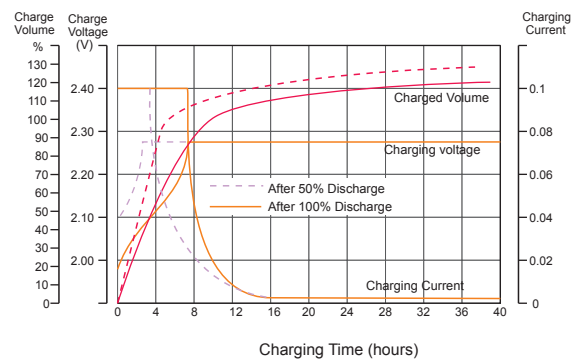
### Constant Power Discharge (Watts/block) at 20°C

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min	3h	5h	8h	10h
9.6V	3767.4	3336.6	3045.6	2403.0	1972.8	1470	822.6	594.6	309.98	214.50	145.21	120.67
10.0V	3506.4	3130.2	2874.6	2280.0	1882.8	1410	791.4	574.8	307.73	213.12	144.19	119.78
10.2V	3391.2	3036.0	2794.2	2226.6	1842.6	1381.2	778.2	567.0	302.96	210.23	142.43	118.33
10.5V	3182.4	2869.2	2653.8	2130.6	1768.2	1335.6	757.2	551.4	296.89	206.53	140.08	116.43
10.8V	2962.2	2693.4	2506.2	2035.8	1701.6	1288.8	734.4	536.4	288.30	201.38	136.93	113.86
11.1V	2580.0	2326.2	2151.6	1769.4	1491.0	1149.6	668.4	493.2	276.8	194.31	132.65	110.46

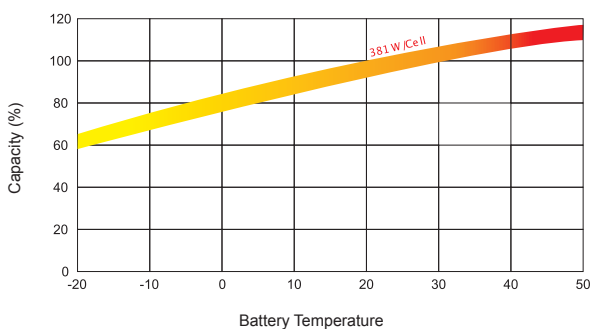
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

