



SBL50-12HR (12V1227W)



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

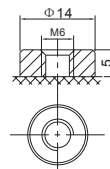
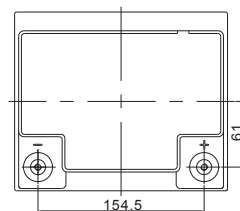
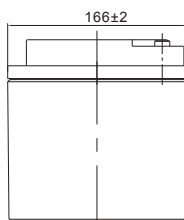
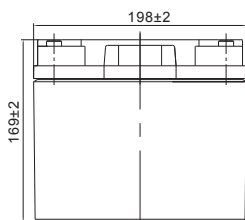
Nominal Voltage	12V
Nominal Capacity	40.3Ah (C ₁₀ , 9.6V)
Approx. Weight	12.4kg
Terminal	M6
Container Material	ABS UL94 HB
Nominal Power	5 min 1652.4W
(20°C/ 9.6V/Block)	10 min 1227.0W
	15 min 948.6W
Nominal Power	5 min 275.4W
(20°C/ 1.6V/Cell)	10 min 204.5W
	15 min 158.1W
Max. Discharge Current	400A (5s)
Internal Resistance / Impedance (1kHz)	Approx. 8.5mΩ
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 12A.
	Voltage 14.7 V +0.1 V at 20°C.
	Temperature Coefficient -30mV/°C.
Standby Use	No limit on Initial Charging Current.
	Voltage 13.7 V +0.1 V 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	>12 years according to EUROBAT

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 198±2 Length X 166±2 Width X 169±2 Height (169±2 Height incl. Terminal)



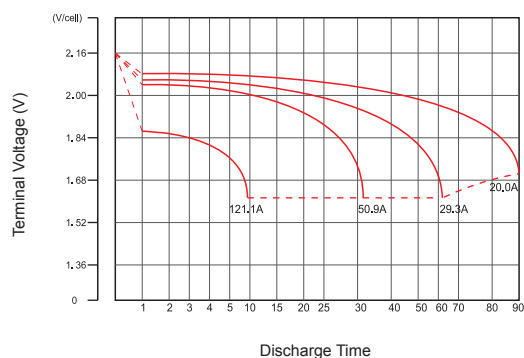
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min	3h	5h	8h	10h
9.6V	149.9	124.1	108.7	83.0	67.5	49.8	28.8	20.7	10.66	7.31	4.88	4.03
10.0V	136.0	113.8	100.5	77.4	63.5	47.1	27.5	19.8	10.52	7.22	4.83	3.99
10.2V	130.2	109.4	96.9	75.0	61.7	46.0	26.9	19.5	10.33	7.11	4.77	3.94
10.5V	120.2	101.9	90.8	71.0	58.6	44.0	26.0	18.8	10.08	6.96	4.69	3.88
10.8V	110.2	94.4	84.8	67.1	55.9	42.2	25.1	18.2	9.75	6.77	4.57	3.79
11.1V	94.6	80.4	71.8	57.7	48.5	37.3	22.6	16.6	9.32	6.51	4.41	3.67

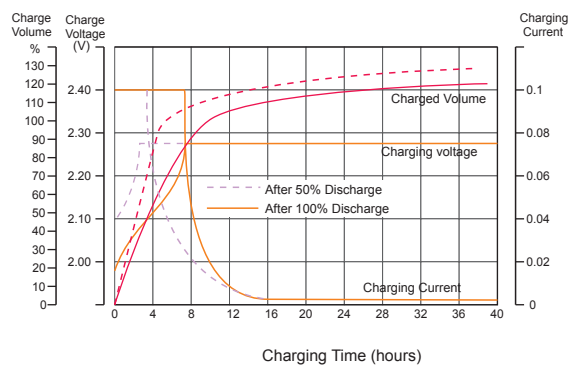
Constant Power Discharge (Watts/block) at 20°C

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min	3h	5h	8h	10h
9.6V	1652.40	1386.6	1227.0	948.6	778.8	580.2	324.6	234.6	123.99	85.80	58.08	48.27
10.0V	1538.40	1300.8	1158.0	900.0	743.4	556.8	312.6	226.8	123.10	85.24	57.68	47.91
10.2V	1487.40	1261.8	1125.6	879.0	727.2	545.4	307.2	223.8	121.19	84.09	56.99	47.33
10.5V	1396.20	1192.2	1069.2	841.2	698.4	527.4	298.8	217.8	118.75	82.61	56.03	46.57
10.8V	1299.00	1119.0	1009.8	804.0	672.0	508.8	289.8	211.8	115.32	80.55	54.78	45.54
11.1V	1131.60	966.6	867.0	698.4	588.6	454.2	264.0	195.0	110.73	77.72	53.07	44.18

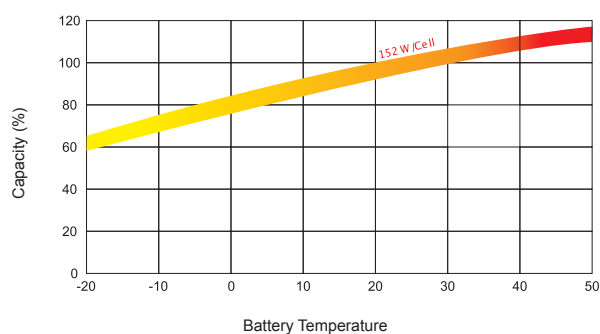
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

