



SBL80-12i (12V80Ah)



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

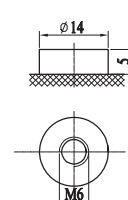
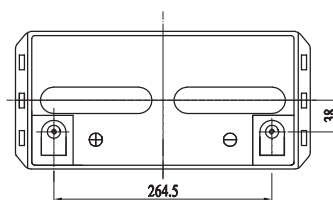
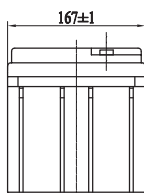
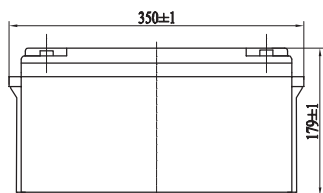
Specifications

Nominal Voltage	12V	Operating Temp. Range	Discharge:	-20~50°C
Nominal Capacity	80.0Ah (C ₁₀ , 10.8V)		Charge:	-10~50°C
Approx. Weight	23kg		Storage:	-20~50°C
Terminal	M6	Standby Use	No limit on Initial Charging Current.	
Container Material	ABS UL94 HB		Voltage 2.295 V/cell at 20° C.	
Rated Capacity (20°C)	80.0Ah/8.0A, 10hr, 10.8V		Temperature Coefficient 3mV/cell/°C.	
	76.32/9.54A, 8hr, 10.8V	Capacity affected by Temp.	40°C	103%
	72.0Ah/14.4A, 5hr, 10.5V		25°C	100%
	65.4Ah/21.8A, 3hr, 10.5V		0°C	86%
	53.7Ah/53.7A, 1hr, 9.6V	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	750A (5s)	Life Expectancy	10-12 years according to EUROBAT	
Internal Resistance / Impedance (1kHz)	Approx. 6.5mΩ			
Nominal Oper. Temp. R.	20±3°C			

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 350 Length X 167 Width X 179 Height (179 Height incl. Terminal)



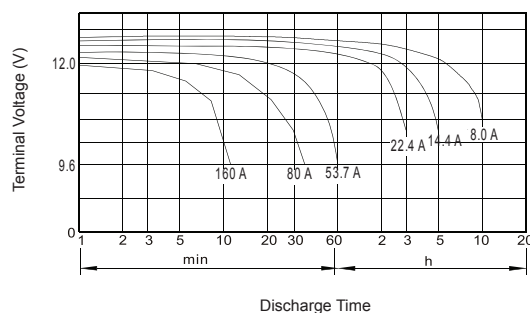
Constant Current Discharge (Amperes) at 20°C

End Point	15min	30min	45min	1h	1.5h	2h	3h	5h	6h	8h	10h
1.60V/cell	149	87.3	66.2	53.7	40.4	31.5	22.7	15	12.8	9.97	8.2
1.65V/cell	137	83	62.2	51.6	38.9	30.5	22.5	14.7	12.7	9.9	8.15
1.70V/cell	132	80.3	61	49.8	37.7	29.6	22.4	14.7	12.5	9.75	8.1
1.75V/cell	126	77.6	57.3	47.1	36	28.7	21.8	14.4	12.3	9.66	8.05
1.80V/cell	118	75	55.9	46.3	35.1	27.8	20.7	14.1	12.1	9.54	8

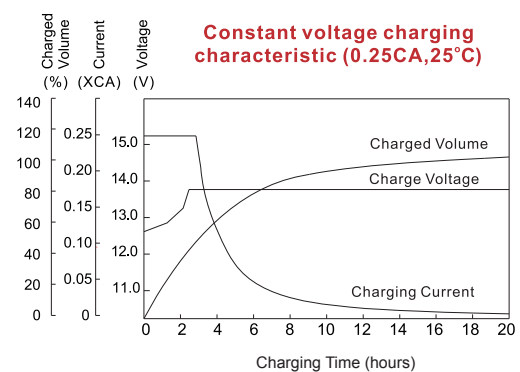
Constant Power Discharge (Watts/cell) at 20°C

End Point	15min	30min	45min	1h	1.5h	2h	3h	5h	8h
1.60V/cell	258	165	124	98.6	73.6	56.5	42.5	27.9	14.82
1.65V/cell	250	157	122	97.8	72.7	55.3	41.1	27.4	14.55
1.70V/cell	246	151	117	93.8	70	53.7	40.4	27	14.34
1.75V/cell	232	149	114	92.3	69	53	39.9	26.8	14.23
1.80V/cell	218	146	111	88.5	66.4	51.4	39	26.4	14.02

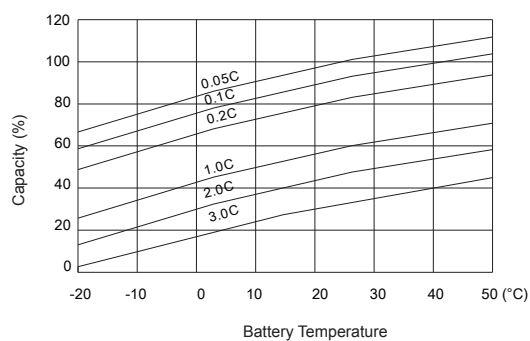
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

