



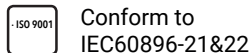
SBL75-12i(sh) (12V82Ah)



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



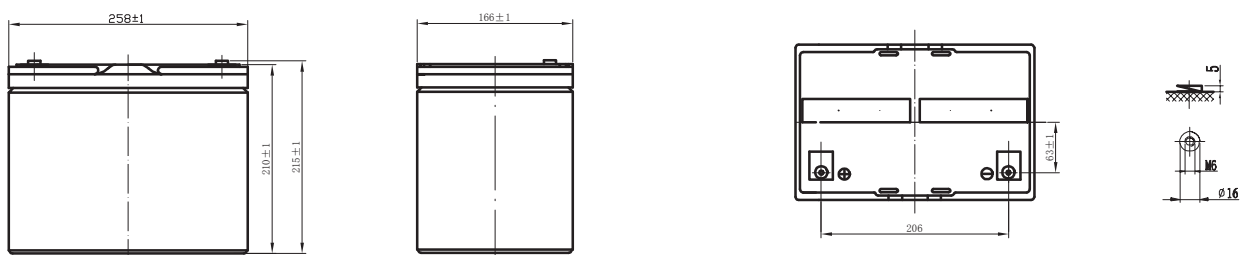
Specifications

Nominal Voltage	12V	Operating Temp. Range	Discharge: -20~50°C
Nominal Capacity	82.0Ah (C ₁₀ , 10.8V)		Charge: -10~50°C
Approx. Weight	24.0kg		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)	85.2Ah/4.26A, 20hr, 10.8V		Temperature Coefficient 3mV/cell/°C.
	82.0Ah/8.2A, 10hr, 10.8V	Capacity affected by Temp.	40°C 103%
	77.0Ah/9.63A, 8hr, 10.5V		25°C 100%
	73.5Ah/14.7A, 5hr, 10.5V		0°C 86%
	69.6Ah/23.2A, 3hr, 10.5V	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.
	62.7Ah/62.7A, 1hr, 9.6V		
Max. Discharge Current	700A (5s)	Life Expectancy	10-12 years according to EUROBAT
Internal Resistance / Impedance (1kHz)	Approx. 6.6mΩ		
Nominal Oper. Temp. R.	20±3°C		

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 258 Length X 166 Width X 210 Height (215 Height incl. Terminal)



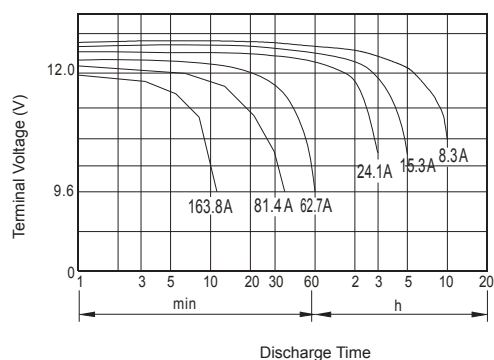
Constant Current Discharge (Amperes) at 20°C

End Point	10min	15min	30min	1h	1.5h	3h	5h	8h	10h	20h
1.60V/cell	175.72	145.36	97.52	62.7	44.9	24.5	15.6	9.93	8.39	4.37
1.65V/cell	174.8	143.52	96.6	62.1	44.4	24.1	15.3	9.88	8.36	4.34
1.70V/cell	172.04	142.6	95.68	61.3	43.9	23.3	15.1	9.75	8.31	4.30
1.75V/cell	168.36	138.92	93.84	60.0	42.9	23.2	14.7	9.63	8.25	4.28
1.80V/cell	158.24	130.64	87.86	56.4	40.4	22.3	14.5	9.5	8.20	4.26

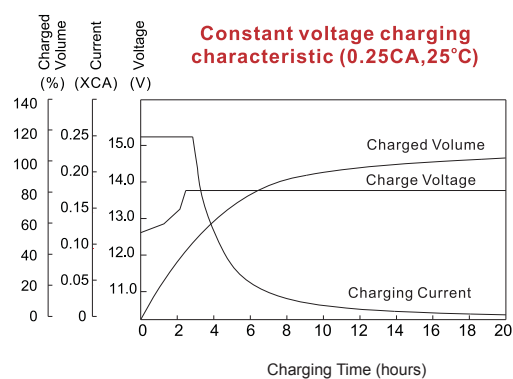
Constant Power Discharge (Watts/cell) at 20°C

End Point	10min	15min	30min	45min	1h	1.5h	2h	3h	5h	8h
1.60V/cell	345.0	281.52	184.0	138.92	121.0	87.8	59.1	43.2	29.85	15.66
1.65V/cell	341.32	278.76	182.16	138.0	120.0	86.9	57.8	42.1	29.63	15.54
1.70V/cell	337.64	276.0	179.4	136.16	119.0	85.8	55.4	41.8	28.97	15.2
1.75V/cell	238.28	269.56	175.72	133.4	116.0	84.0	53.4	41.2	28.97	15.17
1.80V/cell	310.04	253.92	165.6	125.12	109.0	79.0	51.9	40.9	28.75	15.09

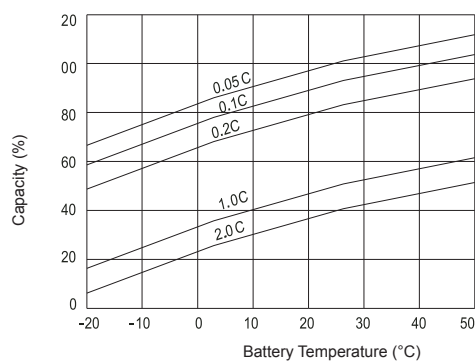
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

