



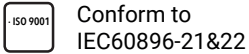
SBL28-12i (12V28Ah)



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



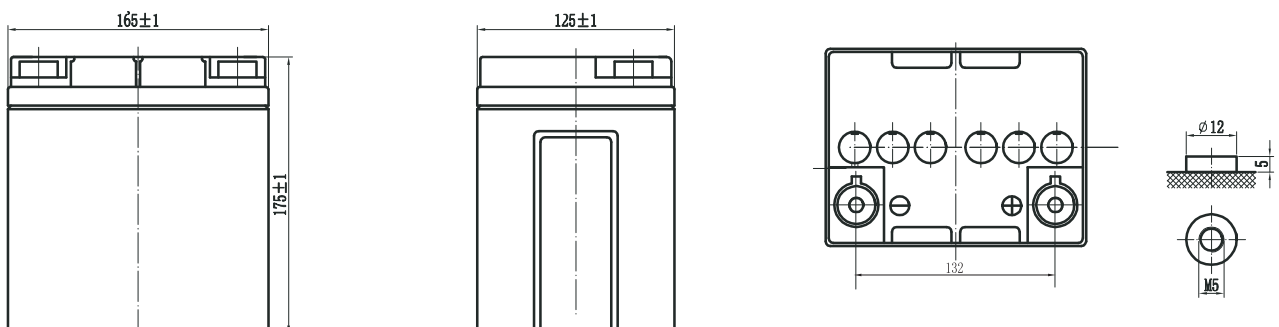
Specifications

<p>Nominal Voltage 12V</p> <p>Nominal Capacity 28.20Ah (C₂₀, 10.5V)</p> <p>Approx. Weight 8.5kg</p> <p>Terminal M5</p> <p>Container Material ABS UL94 HB</p> <p>Rated Capacity (20°C) 28.20Ah/1.41A, 20hr, 10.5V 28Ah/2.8A, 10hr, 10.5V 26.08Ah/3.26A, 8hr, 10.5V 23.95Ah/4.79A, 5hr, 10.5V 21.63Ah/7.21A, 3hr, 10.5V 19.5Ah/19.5A, 1hr, 9.6V</p> <p>Max. Discharge Current 300A (5s)</p> <p>Internal Resistance / Impedance (1kHz) Approx. 12mΩ</p> <p>Nominal Oper. Temp. R. 20±3°C</p>	<p>Operating Temp. Range Discharge: -20~50°C Charge: -10~50°C Storage: -20~50°C</p> <p>Cycle Use Initial Charging Current less than 9.6A. Voltage 14.55V +1% at 20°C. Temperature Coefficient -30mV/°C.</p> <p>Standby Use No limit on Initial Charging Current. Voltage 13.65V +1% at 20°C. Temperature Coefficient -20mV/°C.</p> <p>Capacity affected by Temp. 40°C 103% 25°C 100% 0°C 86%</p> <p>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.</p> <p>Life Expectancy 10-12 years according to EUROBAT</p>
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Dimensions

- **M5 Terminal** Unit: mm | Dimensions: 165 Length X 125 Width X 175 Height (175 Height incl. Terminal)



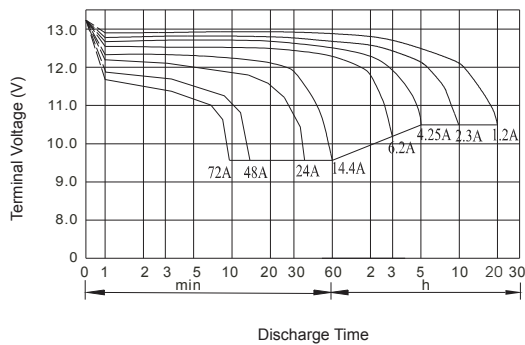
Constant Current Discharge (Amperes) at 20°C

End Point	5min	10min	15min	30min	1h	3h	5h	8h	10h	20h
1.60V/cell	111	72.8	54.9	31.9	19.5	8.01	5.18	4.35	2.82	1.45
1.65V/cell	105.7	69.4	52.4	30.8	18.7	7.76	5.07	4.30	2.82	1.44
1.70V/cell	99.9	65.7	50.0	29.3	18.0	7.50	4.93	3.85	2.81	1.43
1.75V/cell	93.8	62.1	47.3	28.0	17.2	7.21	4.79	3.62	2.80	1.41
1.80V/cell	87.5	58.4	44.5	26.4	16.4	6.87	4.61	3.41	2.79	1.41

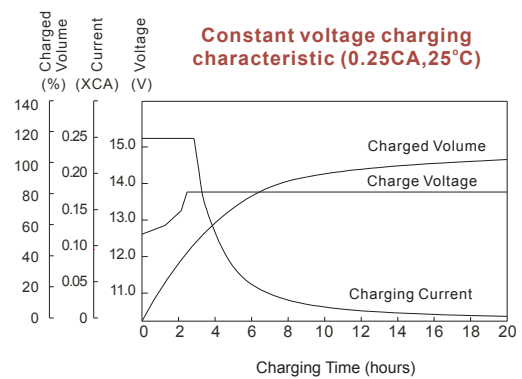
Constant Power Discharge (Watts/cell) at 20°C

End Point	5min	10min	15min	30min	1h	3h	5h	8h	10h	20h
1.60V/cell	206	134	104	61.5	46.5	36.5	23.9	7.52	5.93	3.27
1.65V/cell	193	125	99.1	58.4	44.3	35.0	23.1	7.38	5.86	3.22
1.70V/cell	181	118	93.5	55.2	42.1	33.3	22.4	7.31	5.80	3.18
1.75V/cell	168	109	87.7	52.1	39.8	31.6	21.5	7.22	5.73	3.14
1.80V/cell	155	103	81.9	49.1	37.5	30.0	20.6	6.72	5.67	2.98

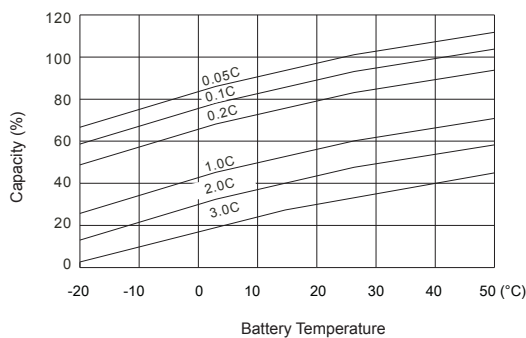
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

