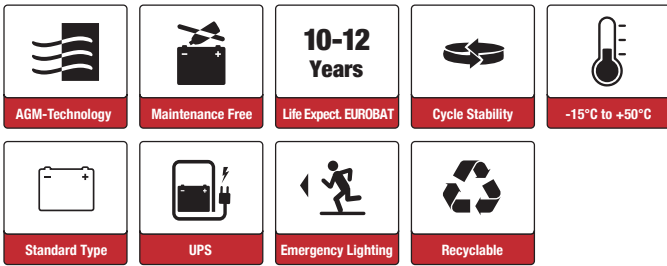




SBL28-12i (12V28Ah)



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

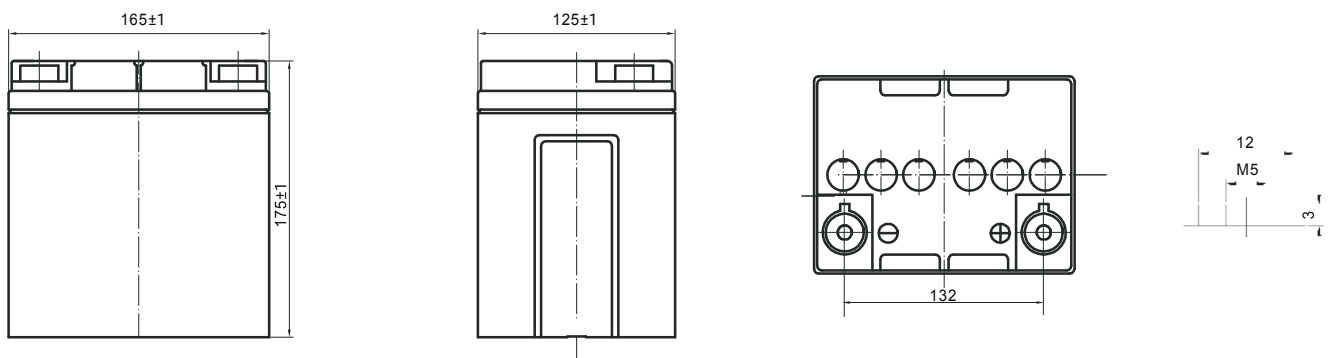
Conform to
IEC60896-21&22

Specifications

Nominal Voltage	12V	Operating Temp. Range	Discharge:	-20~50°C
Nominal Capacity	28Ah (C ₂₀ , 10.5V)		Charge:	-10~50°C
Approx. Weight	8.6kg		Storage:	-20~50°C
Terminal	M5	Float Charge	2.285V/cell ± 0,5 % @ 20°C	
Container Material	ABS UL94 HB		Charging Current:	0.1-0.2C
Rated Capacity (20°C)	28Ah/1.40A, 20hr, 10.5V		Temperature coefficient:	-3mV/cell/°C
	26Ah/2.6A, 10hr, 10.5V	Capacity affected by Temp.	40°C	103%
	24.64Ah/3.08A, 8hr, 10.5V		25°C	100%
	23.8Ah/4.76A, 5hr, 10.5V		0°C	86%
	21Ah/7.0Ah, 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.	
	17.6Ah/17.6A, 1hr, 9.6V	Life Expectancy	10-12 years according to EUROBAT	
Max. Discharge Current	420A (5s)			
Internal Resistance / Impedance (1kHz)	Approx. 11mΩ			
Nominal Oper. Temp. R.	20±3°C			

Dimensions

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



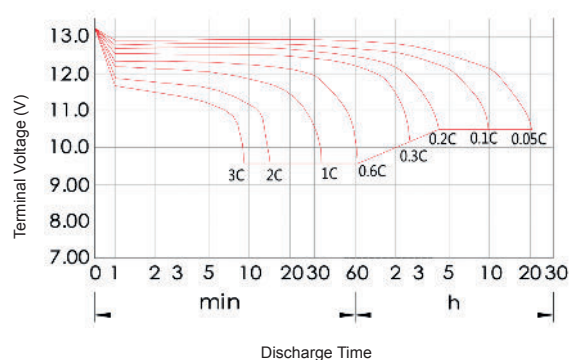
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	95.9	64.8	51.3	28.6	17.6	9.95	7.14	5.71	4.86	3.14	2.64	1.42
9.90V	93.1	62.9	50.1	28.0	17.3	9.89	7.10	5.68	4.83	3.12	2.63	1.42
10.2V	89.2	60.3	48.2	27.2	16.8	9.80	7.05	5.64	4.79	3.10	2.62	1.41
10.5V	85.4	57.7	46.6	26.5	16.5	9.65	7.00	5.60	4.76	3.08	2.60	1.40
10.8V	80.5	54.4	44.1	25.6	16.0	9.41	6.79	5.43	4.62	2.99	2.55	1.37

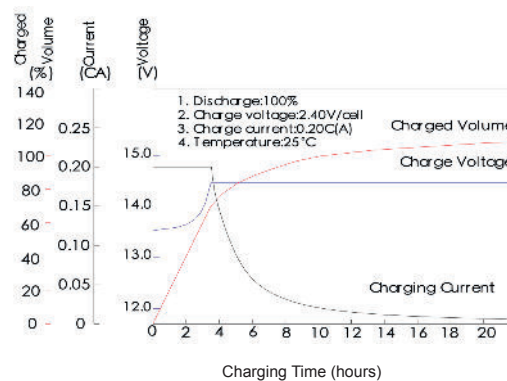
Constant Power Discharge (Watts/cell) at 20°C

F.V/TIME	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	179.17	121.83	97.50	78.33	54.67	44.67	33.83	19.33	14.13	11.33	9.67	6.28	5.28	2.85
1.65V/cell	173.67	118.17	95.17	76.50	53.50	43.83	33.33	19.33	14.05	11.27	9.60	6.25	5.27	2.83
1.70V/cell	166.67	113.33	91.67	74.17	52.00	42.67	32.50	19.17	13.95	11.20	9.53	6.20	5.23	2.82
1.75V/cell	159.50	108.50	88.50	71.83	50.67	41.67	31.83	18.83	13.87	11.12	9.47	6.17	5.20	2.80
1.80V/cell	150.50	102.33	83.83	68.67	48.83	40.17	30.83	18.33	13.45	10.78	9.18	5.98	5.10	2.75

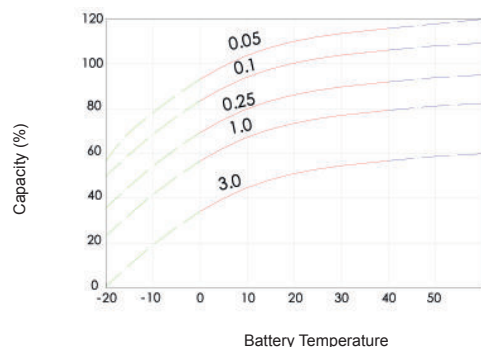
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

