

Sealed Lead Acid Rechargeable Battery

SN100-12 12Volt 100Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(5A to 10.50V)	100Ah
10 hour rate	(10A to 10.80V)	100Ah
5 hour rate	(17A to 10.20V)	85Ah
1 hour rate	(60A to 9.60V)	60Ah

Weight Approx. 31.3Kg(68.9Lbs.)

Internal Resistance (at 1KHz) Approx. 4mΩ

Maximum Discharge Current for

5 seconds: 1200A

Charging Methods at 25 °C (77 °F)

Cycle use:

Maximum Charging Current: 30A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

Design Life 12 years

Operating Temperature Range

Charge -15°C (5°F) to 40°C (104 °F)

Discharge -15°C (5°F) to 50°C (122 °F)

Storage -15°C (5°F) to 40°C (104 °F)

Charge Retention (shelf life) at 20°C(68°F)

1 month 98%

3 month 94%

6 month 85%

Case Material ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life & Standard

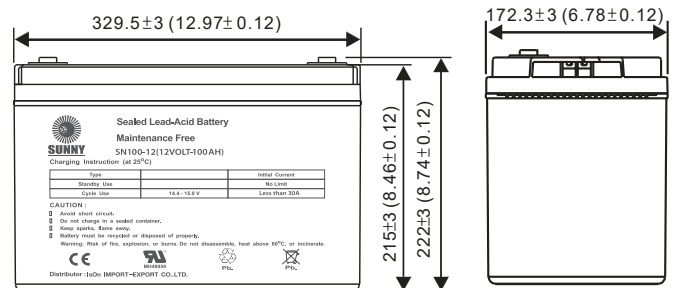
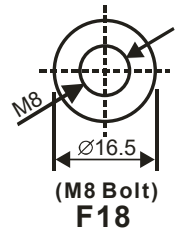
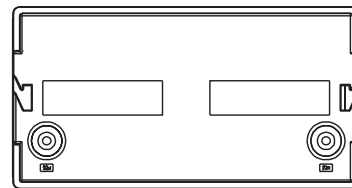
Expected Trickle Design Life: 10 - 12 years at 20°C according to Eurobat.

Terminal F18

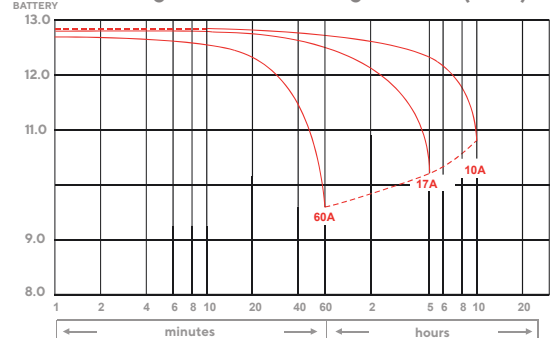


Dimensions

mm(inch)

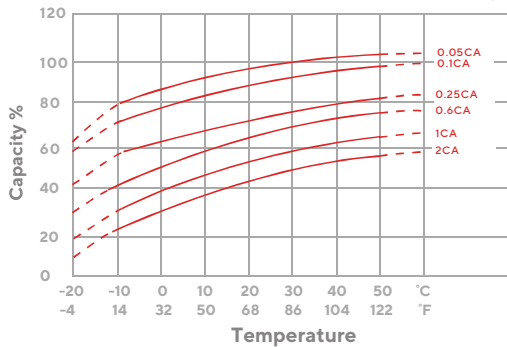


(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

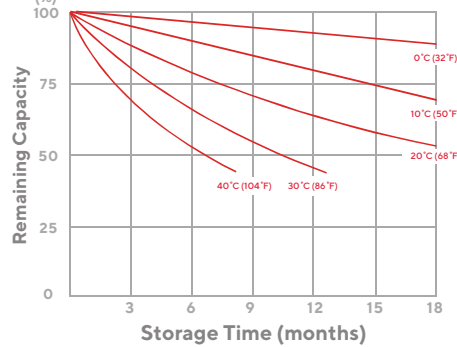


Discharge Time

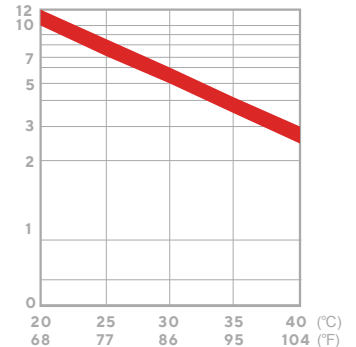
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



PERFORMANCE DATA

- Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
10	min	355	388	415	440	460	480
15	min	295	327	355	368	378	385
20	min	253	275	302	315	327	336
30	min	210	220	233	236	239	241
60	min	128	134	140	143	145	147
180	min	50.4	53.7	55.8	57.6	58.6	59.2
300	min	33.8	35.5	37.3	37.7	38.0	38.3
600	min	19.2	19.9	20.2	20.5	20.8	21.0
1200	min	10.5	10.8	11.1	11.2	11.4	11.6

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
10	min	186	212	235	256	274	287
15	min	168	181	191	200	206	212
20	min	134	147	163	171	178	185
30	min	113	121	127	130	132	134
60	min	61	65.3	69.5	71.7	72.8	73.9
180	min	28.3	29.1	29.8	30.4	30.7	30.9
300	min	17.1	17.9	18.7	18.9	19.1	19.3
600	min	9.81	10.1	10.3	10.5	10.7	10.8
1200	min	5.13	5.28	5.42	5.45	5.48	5.50

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $\geq X > 60\text{min}$ (+5%~-5%)