

Sealed Lead Acid Rechargeable Battery

SN130-12 12Volt 130Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(13A to 10.80V)	130Ah
5 hour rate	(22.1A to 10.20V)	93.5Ah
1 hour rate	(78A to 9.60V)	66Ah
1 C	(130A to 9.60V)	82.33Ah

Weight Approx. 43.0Kg(94.6Lbs.)

Internal Resistance (at 1KHz) Approx. 5mΩ

Maximum Discharge Current for

5 seconds: 1300A

Charging Methods at 25 °C (77 °F)

Cycle use:

Charging Voltage 14.4 to 15V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 39A

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)

Terminal F8

Description of torque value of hard ware for the terminals:

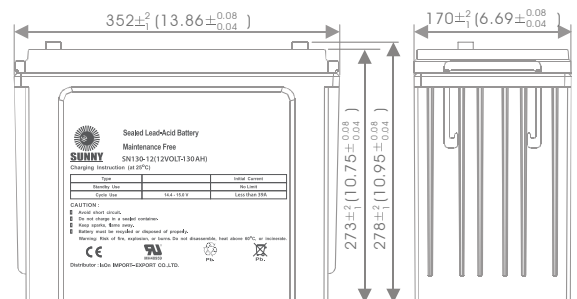
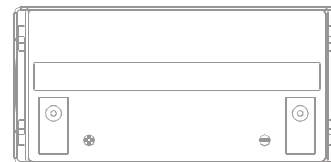
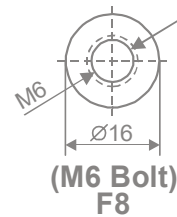
Recommended torque value M6: 7 N-m (71kgf-cm)

Maximum allowable torque value M6: 9 N-m (92kgf-cm)

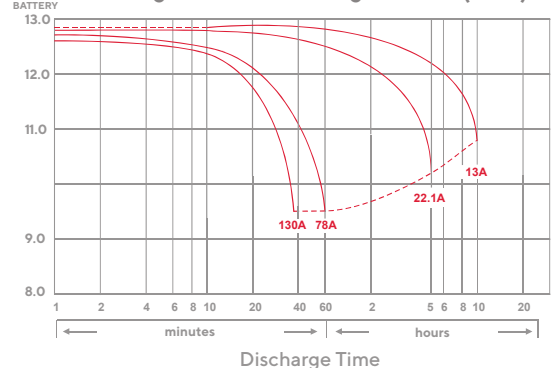


Dimensions

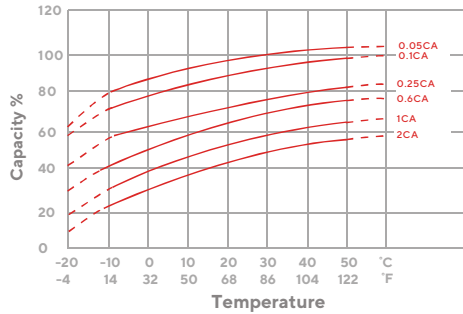
mm(inch)



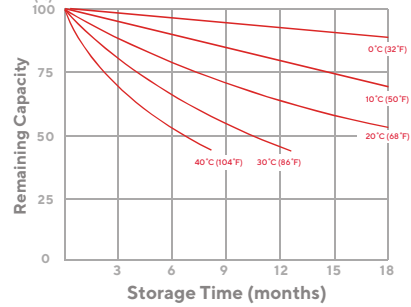
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 °C)



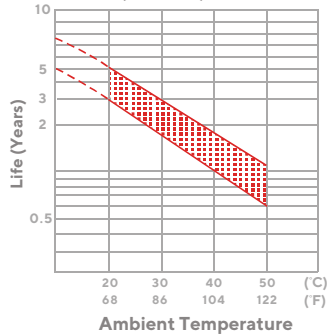
Effect of Temperature on Capacity 25°C(77°F)



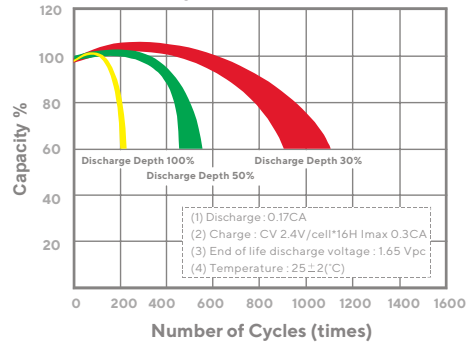
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	409	470	495	518	528	539	559
15	min	345	364	389	408	415	423	435
30	min	223	257	261	271	275	278	283
60	min	143	149	155	159	160	161	163
120	min	82.0	85.2	88.2	90.7	91.7	92.8	94.5
180	min	62.7	65.0	67.3	69.2	70.0	71.0	72.3
240	min	48.7	51.7	53.5	55.0	55.5	56.2	57.2
300	min	42.3	44.7	46.2	47.3	47.7	48.2	48.8
600	min	24.3	25.3	26.0	26.7	26.8	27.2	27.5
1200	min	12.0	12.5	12.9	13.2	13.3	13.5	13.5

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	229	260	292	308	316	324	340
15	min	182	211	232	247	250	256	262
30	min	113	128	136	143	145	147	152
60	min	57.8	66.4	73.5	78.9	80.1	81.4	83.6
120	min	37.4	42.4	44.7	45.8	46.5	47.3	48.6
180	min	28.4	31.3	34.4	35.0	35.5	36.2	37.2
240	min	22.4	24.6	27.1	27.7	28.0	28.4	28.9
300	min	20.7	22.0	22.9	23.5	23.7	23.9	24.2
600	min	12.0	13.0	13.1	13.1	13.2	13.2	13.3
1200	min	6.00	6.50	6.57	6.63	6.70	6.74	6.78

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%), $X \geq 60\text{min}$ (+5%~-5%)