

12Volts 100Amps

Sealed Rechargeable Lead Acid

Battery



Reliable Power

Enjoy Green Life



Rechargeable Lead Acid Battery Long-Lasting Power



Our new 12V 100Ah Deep Cycle Solar Battery sets the standard for exceptional performance and unparalleled quality, providing a long-lasting, efficient, and reliable power solution for a variety of applications, from off-grid setups to expansive commercial installations.

We take pride in using superior materials and strict quality control procedures to create high-quality batteries that meet the needs of our clients.













Applications

Solar System | UPS | Golf Cart | Light Tower | Portable Equipment Vehicle Auxiliary Power | Security

EL | S | EA12-100

Specification & Dimensions

ELL: S Attilium (E Pb

SPECIFICATIONS

Voltage Per Unit 12 100Ah@C10 /105Ah@C20 /111Ah@C48 rate 1.80V per cell@25C Capacity Weight 29.5kg / 65.03 lbs Max. Discharge Current 800A (5sec) Internal Resistance $3.5 m\,\Omega$ Discharge: -40 °C ~50 °C Charge: -20°C ~50°C **Operating Temperature Range** Storage: -20 ℃ ~50 ℃ 25℃±5℃ Normal Operating Temperature Range Bulk/Absorb 14.70VDC @ 25℃ Float Voltage 13.50VDC @ 25℃ Equalize 16.20VDC @ 25C* To be performed by professional only* 25.0A Max. Charging Current The batteries can be stored for more than 6 months at 25℃. Please charge batteries before using. For Self Discharge high temperature, the time interval will be shorter.

T14

ABS(UL94-HB)

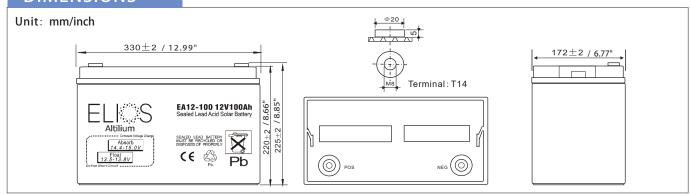




DIMENSIONS

Terminal

Container Material

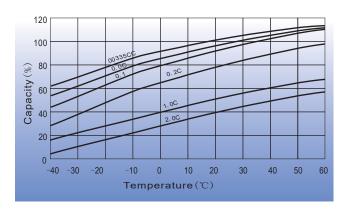


Constant Current Discharge Characteristics Unit:A(25						it:A(25	°C, 77 °F)			
F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	307.1	210.8	152.1	91.9	67.3	56.3	25.5	17.3	10.3	5.38
1.65V/cell	294.6	191.0	148.8	90.3	66.5	55.8	25.4	17.2	10.2	5.30
1.70V/cell	267.4	184.3	146.7	89.6	65.7	55.3	25.3	17.1	10.1	5.25
1.75V/cell	241.5	169.7	142.6	88.9	63.6	55.0	25.0	17.0	10.0	5.20
1.80V/cell	219.6	157.6	132.3	83.6	63.0	52.3	23.8	16.3	8.8	4.75

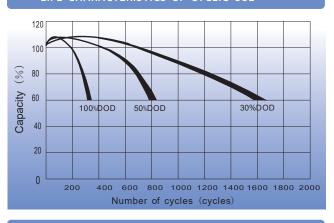
All mentioned values are average values.



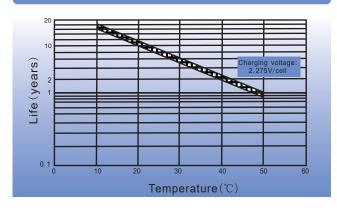
TEMPERATURE EFFECTS CURVE



LIFE CHARACTERISTICS OF CYCLIC USE



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



Charging Procedures

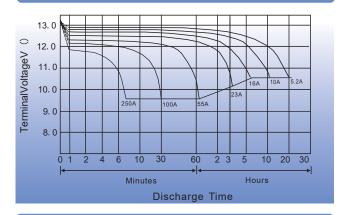
Application	Char	Max.Charge			
Application	Temperature	Set Point	Allowable Range	Current	
Cycle Use	25 ℃	2.475	2.45~2.50	0.25C	
Standby Use	25℃	2.275	2.25~2.30	0.230	

Charge the batteries at least once every 6 months, if they are stored at 25 $^{\circ}$ C.

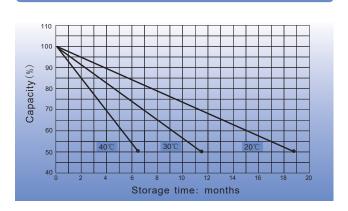
Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.25CA		
Constant Current	0.1CA×5h		
Fast	0.25CA×1.7h		

DISCHARGE TIME VS DISCHARGE CURRENT 25 (°C)



SELF - DISCHARGE CHARACTERISTIC



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE

