

ELIOS

EA12-200



12Volts
200Amps

Sealed
Rechargeable
Lead Acid

Battery



Reliable Power

Enjoy **Green** Life

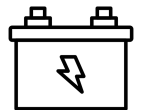
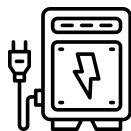
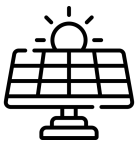
ELIOS | EA12-200

Rechargeable Lead Acid Battery Long-Lasting Power



Our new 12V 200Ah 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



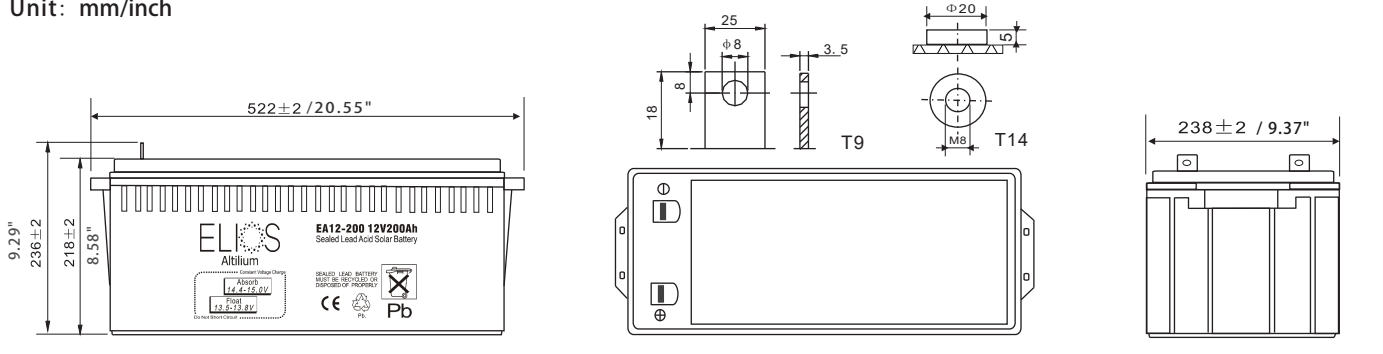
SPECIFICATIONS

Voltage Per Unit	12
Capacity	200Ah@C10 / 210Ah@C20 / 221Ah@C48 rate 1.80V per cell@25°C
Weight	58kg / 127.86lbs
Max. Discharge Current	1200A(5sec)
Internal Resistance	2.8mΩ
Operating Temperature Range	Discharge: -40°C ~ 50°C Charge: -20°C ~ 50°C Storage: -20°C ~ 50°C
Normal Operating Temperature Range	25°C ± 5°C
Bulk/Absorb	14.70VDC @ 25°C
Float Voltage	13.50VDC @ 25°C
Equalize	16.20VDC @ 25°C * To be performed by professional only*
Max. Charging Current	50A
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For high temperature, the time interval will be shorter.
Terminal	T9 / T14
Container Material	ABS(UL94-HB)



DIMENSIONS

Unit: mm/inch

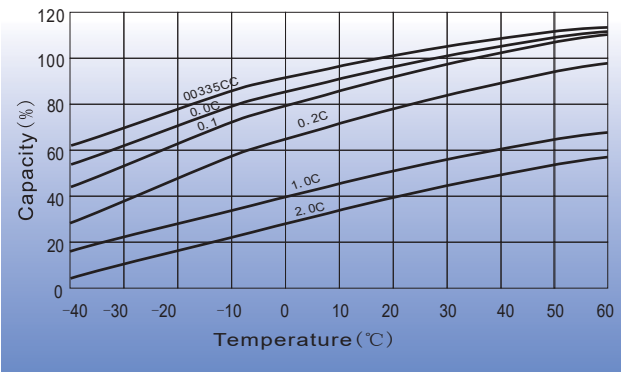


Constant Current Discharge Characteristics Unit:A(25 °C,77°F)

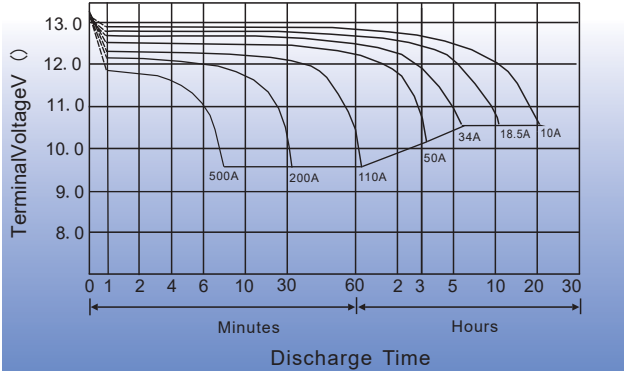
F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	570.0	451.9	345.1	208.5	152.6	112.5	55.7	34.5	20.6	10.7
1.65V/cell	546.8	409.4	337.7	204.8	150.9	111.5	55.5	34.4	20.5	10.5
1.70V/cell	496.3	395.1	332.8	203.4	149.1	110.5	55.2	34.2	20.2	10.4
1.75V/cell	448.2	363.8	323.4	201.6	144.3	110.0	55.0	34.0	20.0	10.2
1.80V/cell	407.6	337.9	300.1	189.7	142.9	104.5	51.0	32.5	17.5	9.5

All mentioned values are average values.

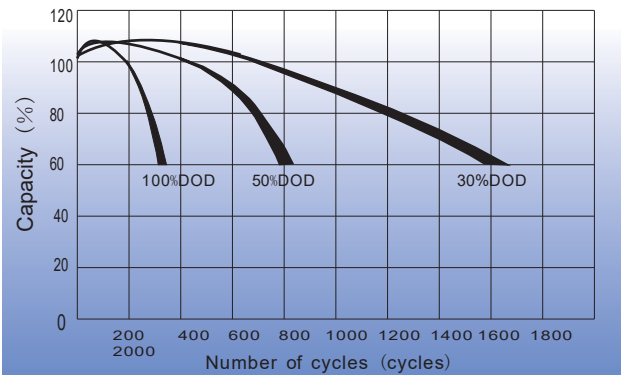
TEMPERATURE EFFECTS CURVE



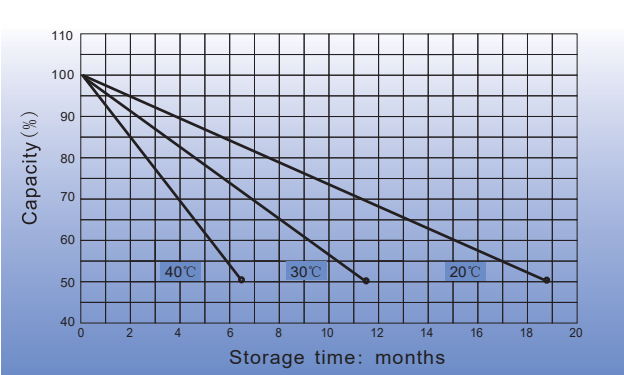
DISCHARGE TIME VS DISCHARGE CURRENT 25 (°C)



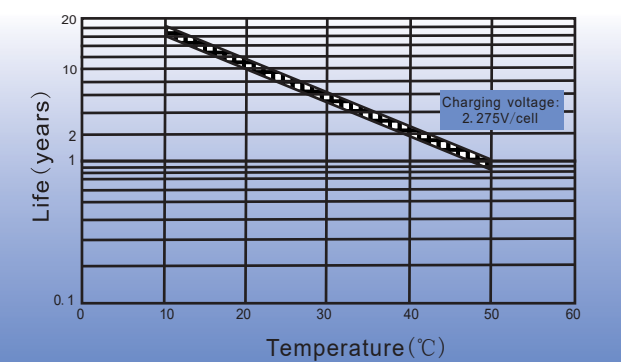
LIFE CHARACTERISTICS OF CYCLIC USE



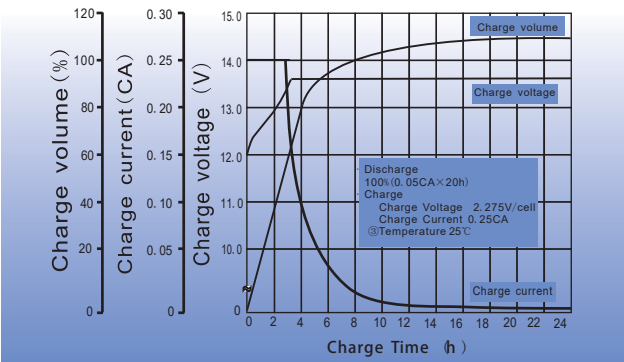
SELFDISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.25C
Standby Use	25°C	2.275	2.25~2.30	

Charge the batteries at least once every 6 months, if they are stored at 25 °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

