

ELIOS

FT180-12



12Volts
180Amps

Sealed
Rechargeable
Lead Acid

Battery



Reliable Power

Enjoy **Green** Life

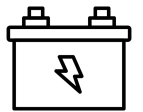
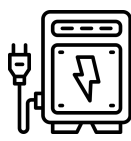
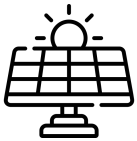
ELIOS | FT180-12



Rechargeable Lead Acid Battery Long Lasting Power

Meet the Altilium FT180-12 Front Terminal Battery - a powerful 12V-180Ah solution for diverse applications.

From network connection equipment to power stations, solar systems, UPS systems, and railway/marine setups, this battery delivers reliable and efficient performance. Its sealed design ensures maintenance-free operation, making it an ideal choice for your power needs. Upgrade to the FT180-12 for a versatile and robust energy solution.



Applications

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

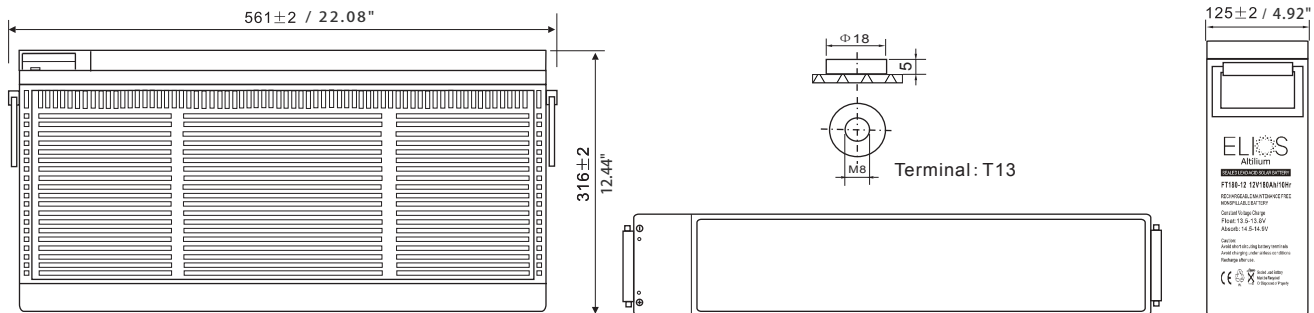


SPECIFICATIONS	
Voltage Per Unit	12
Capacity	180Ah@C10 /190Ah@C20/200Ah@C48 rate 1.80V per cell@25C
Weight	52kg / 114.64lbs
Max. Discharge Current	1200A (5sec)
Internal Resistance	3.5mΩ
Operating Temperature Range	Discharge: -40°C~50°C Charge: -20°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Bulk/Absorb	14.70VDC @ 25C
Float Voltage	13.50VDC @ 25C
Equalize	16.20VDC @ 25C * To be performed by professional only*
Max. Charging Current	45.0A
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	T13
Container Material	ABS(UL94-HB)



DIMENSIONS

Unit: mm/inch

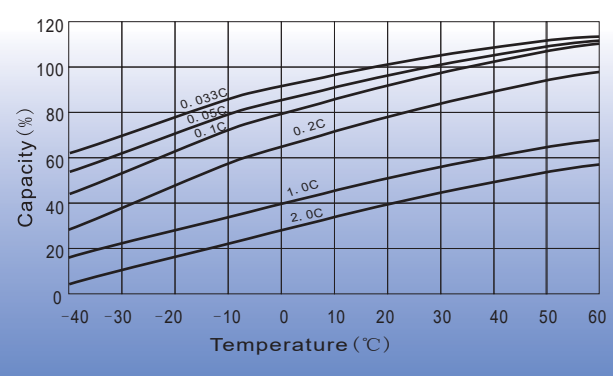


Constant Current Discharge Characteristics Unit:A(25 °C,77°F)

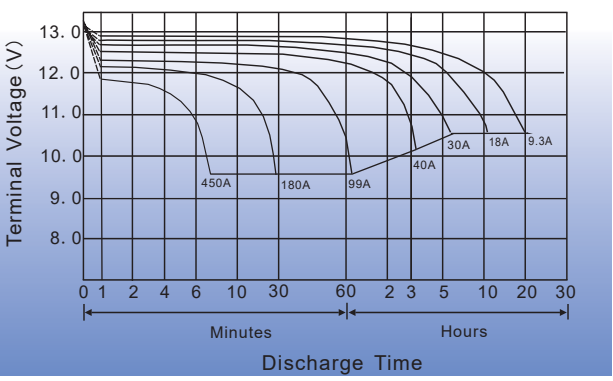
F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	583.5	400.6	289.0	174.6	127.8	101.3	46.1	31.9	18.5	9.7
1.65V/cell	559.7	362.8	282.8	171.5	126.4	100.4	45.8	31.4	18.4	9.5
1.70V/cell	508.1	350.2	278.7	170.3	124.9	99.5	45.5	31.0	18.3	9.4
1.75V/cell	458.9	322.4	270.9	168.9	120.9	99.0	45.0	30.6	18.2	9.3
1.80V/cell	417.3	299.5	251.3	158.8	119.7	94.1	42.8	29.3	18.0	9.2

All mentioned values are average values.

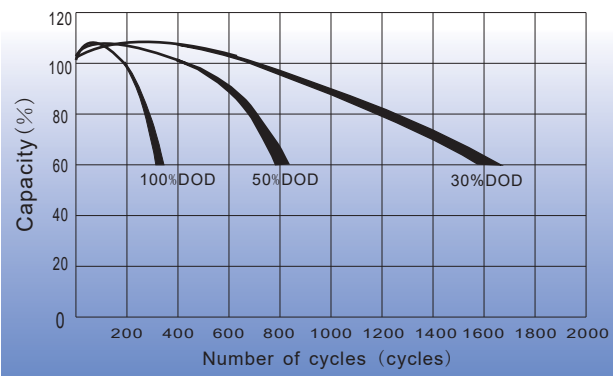
TEMPERATURE EFFECTS CURVE



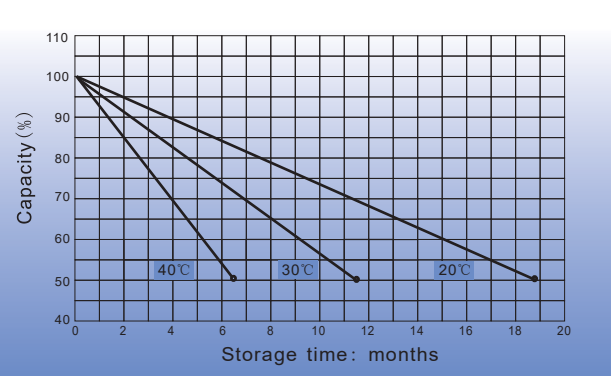
DISCHARGE TIME VS DISCHARGE CURRENT 25 (°C)



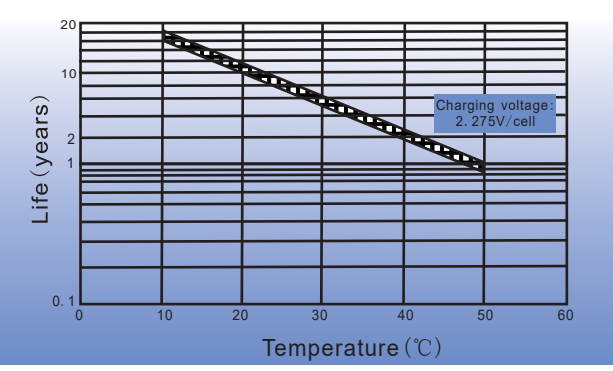
LIFE CHARACTERISTICS OF CYCLIC USE



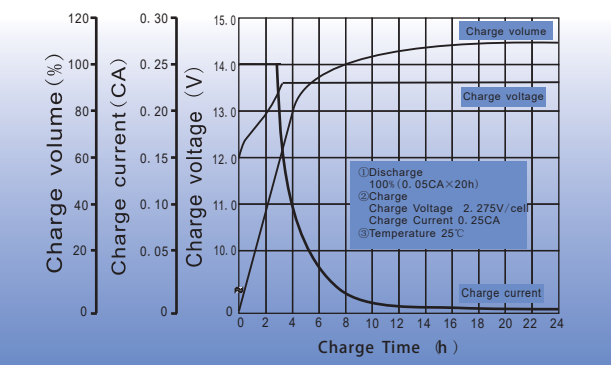
SELF-DISCHARGE CHARACTERISTIC



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 x 5h
Fast	0.25CA x 1.7h

