

TLA series is a general purpose battery , This series battery can be used for more than 260cycles or 3 to 5 year in stand by service

Nominal Voltage:		12V
Capacity (mAh)	15 min rate (216W to 9.6V) 54Wh 20 hour rate (0.45A to 10.5V) 9.0Ah 10 hour rate (0.85A to 10.5V) 8.5Ah 5 hour rate (1.52A to 10.2V) 7.65Ah 1C (5.8A to 9.6V) 5.8Ah	
Weight	2.80 kg	
Internal Resistance	Approx 14mΩ	
Max. Charge Current	2.7A	
Max. Discharge current	135A	
Ambient temperature	Charge 0 to 40 °C Discharge -20 to 50 °C Storage -20 to 40 °C	
Case Material	ABS with flame retardant UL 94 V0 material	
Terminal	F2 ( Faston Tab 250)	

### CHARGE METHOD

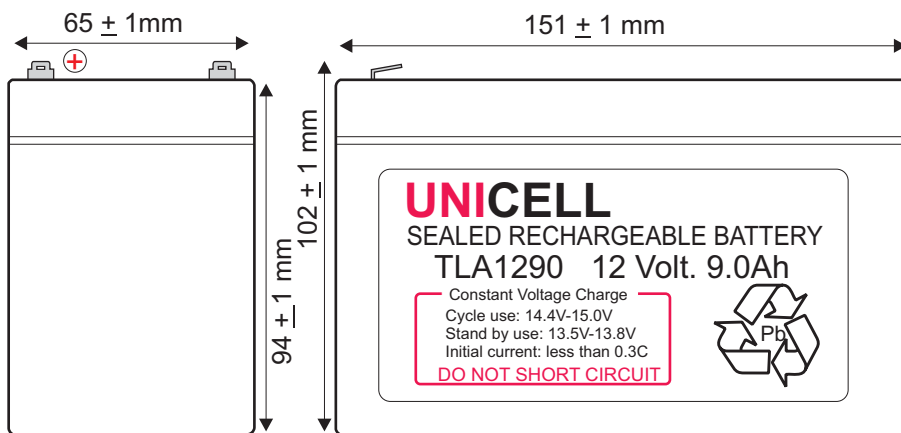
Application		Standby Use	Cycle Use
Charge Method		Constant Voltage	
Setting Voltage (v/cell)		2.25-2.30	2.40-2.50
Temperature Factor		-3.3mV/°C/cell	-5.0mV/°C/cell
Max. Charge Current (CA)		0.3	0.3
Charge Time 20 °C	Discharge 100%	24h	16h
	Discharge 50%	20h	10h
Temperature		0 to 40 °C	

High performance and long service life of UNICELL batteries depend upon correct charging. Improper charging modes or inadequate charging equipment result in decreased battery life and or unsatisfactory performance. Any of the conventional charging techniques may be used, but to obtain maximum service life and capacity, along with acceptable recharge time, constant current/constant voltage charging is recommended.

A charge quantity of 105-120% of the previous discharged quantity is needed for fully charging the battery. The charging voltage of battery decreases with increasing temperature and increases with decreasing temperature. At a temperature below 5 C (41 F) or above 35 C (95 F), the temperature compensation for charging voltage is necessary. At ambient temperature the compensation will not be necessary

Overcharging should be avoided: As a result of too high a charge voltage, excessive current will flow after reaching full charge, causing decomposition of water in the electrolyte and hence, premature aging.

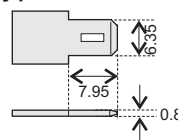
Undercharging should also be avoided: if too low a charge voltage is applied, the charger current output will essentially stop before the battery is fully charged. This allows some of the lead sulphate to remain on the plates which will eventually reduce capacity.



#### HANDLING INSTRUCTION

- # Do not short the terminals.
- # Do not place the battery near or in fires
- # Do not use the battery in a container or bag without proper ventilation
- # Operate at a temperature between -15 C. To 50 C. But for cycle use , the 5 C to 35 C temperature range is recommended.
- # To properly store the battery, remove battery from equipment or charger and store in a dry and cool place
- # Immediately recharge after discharging
- # If sulfuric acid from the battery is spilled on skin or clothing, wash immediately with water. If acid comes in contact with eyes , flush with large amounts of water and immediately see a doctor.
- # To obtain maximum life, the ripple current at the r.m.s. Current of charger should be regulated to less than 0.1C (A)
- # Avoid mixed use of battery. Different capacities , histories or manufacturers of batteries may cause damage to the batteries or other equipments.

#### F2 type terminal



#### Note:

1. Nominal capacity, rated at C/10, 25 C
2. Other capacities are for reference.
3. Weight and internal impedance are for reference only.