

EPT-SERIES LI-ION BATTERY (25.2V 3.0A)

LIFE CYCLE AND CARE

Rev 1.0 (10/15/2021)



Estimated Battery Life and Warranty

Item	Specification	Information
Warranty period	6 months	Standard warranty
Minimum battery life	300 charging cycles under these conditions: 1. The battery charge indicator on the driver is at a 50% level (two out of four green bars) 2. The battery is charged at full. The charger indicator is a solid green line.	See battery rundowns per full cycle charge
Optimal operation temperature	10 ~ 60°C 50 ~ 140°F	Shorter lifetime or battery failure
Charging temperature	0 ~ 40°C 32 ~ 104°F	Suspend charging if weather conditions are extreme
Storage condition	Keep the battery over 50% charged (2 green bars) Temperature: Storage -30~25°C (-22 ~ 77°F): 1.5 year -30~45°C (-22 ~ 113°F): 3 months -30~60°C (-22 ~ 140°F): 1 month Humidity : 65% +/- 20% RH	Always remove the battery from the driver when not being used

Battery Specification (Item # 313102)

Model	EPT-Series Li-ion Battery
Battery cell	INR18650-30Q
Rated voltage	25.2V (3.6V cell x 7 cells)
Rated current	3.0 Ah
Max full charging voltage	29.4V (4.2V cell x 7 cells)
Lowest discharging voltage	17.5V (50% of full charge)

Charging and Discharging

1. Never discharge the battery completely or lower than 50% of the full charge (two green bars on driver indicator). Otherwise, the battery will lose performance and have reduced life.

Battery Lifetime

1. Battery performance and lifetime depend on several factors:
 - a) Number of rundowns per day
 - b) Torque being applied (higher torque, higher power consumption)
 - c) Rundown time of application or duty cycle (driver on and off time)
 - d) Proper use and following charging instructions.
2. The normal lifetime of the Li-ion charging cycle can be as low as 300 cycles but can be extended up to 1000 cycles depending on use conditions.
3. Higher ambient temperatures affect battery life. Temperatures above 40 Celsius (104°Fahrenheit) can reduce battery life
4. It is recommended to charge the battery completely (a solid green line on the charger indicator) and use it until the driver battery indicator reaches two green bars out of four green bars.
5. Always charge the battery fully after been stored for more than 2 weeks.