



Powering Communications with TLI Battery

Designed specifically for use in harsh environments as it has excellent long-life characteristics and operates in a wide temperature range.

The TLI series is specifically designed for long-term use in harsh environments and represents an important breakthrough in rechargeable lithium-ion battery technology.



Standard rechargeable lithium-ion cells have inherent drawbacks, including short operating life (maximum 5 years), low maximum cycle life (1000 cycles), high self-discharge (up to 60 % per year), and limited temperature range (0 °C to 60 °C) with no possibility of charging at low and high temperatures.

By contrast, TLI series batteries utilize technology found in Tadiran's patented hybrid layer capacitor (HLC), which stores the high current pulses required for two-way wireless communications. Tadiran's technology has been field-proven in millions of cells to deliver 25+ year service life. TLI series batteries modify this technology to deliver reliable, long-term performance under extreme environmental conditions.

TLI Series cells can be recharged using DC power or can be used in conjunction with photovoltaic solar systems or other energy harvesting devices to deliver reliable long-term power.



TLI Series Characteristics

- Wider operating temperature (- 40 °C to 85 °C, with short term storage up to 90 °C)
- Ability to deliver high current pulses (up to 5 A)
- Low self-discharge rate (less than 5 % per year)
- Up to 5 times more life cycles (5000 full cycles)
- Longer operating life (10 years)
- Charging possible at extreme temperatures
- Hermetically sealed (glass-to-metal seal)

For more information, please visit: www.tadiranbatteries.co.uk

THE SAM

SEMI-AUTONOMOUS MOTORCAR

ENGINEERS HAVE DONE SOMETHING THAT NO ONE HAS EVER DONE BEFORE.
Modifying a car—a 2014 Corvette C7 Stingray—with integrated advanced electronics and a human-to-machine interface so a qualified quadriplegic driver can safely operate it under racetrack conditions.

UNDER THE HOOD

DRIVING WITH ONLY YOUR HEAD

STEERING
180° horizontal

ACCELERATION
180° vertical

BRAKING
180° vertical