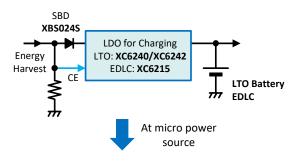


Solutions for Energy Harvesting

- Examples of charging from Energy Harvesting to LTO battery or Supercap (EDLC)
 - Challenges: Supporting various Energy Harvesting: Wireless power transfer (WPT), NFC, solar panels, piezo, etc.
 Charge LTO battery or Supercap (EDLC) from unstable/micropower sources

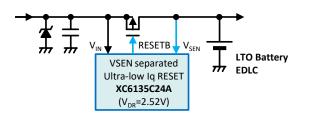
Example of 3V~6V input + LTO battery / EDLC

Supported by LTO charging reference circuit



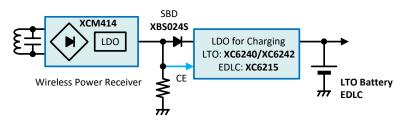
Example of 3V $^{\sim}$ 6V Rectenna and other micro power (a few μ W) + LTO battery / EDLC

ON-OFF control of Pch FET with Ultra-low Ig Voltage Detector

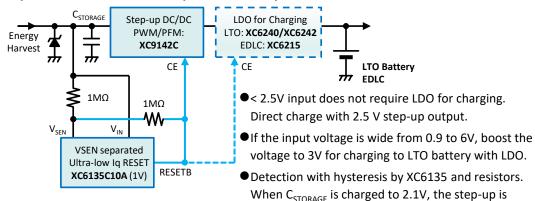


Example of Wireless power transfer + LTO battery / EDLC

Charging with wireless power receiving IC + LDO



Example of 0.9V~2.7V / 0.9V~6V input + LTO battery



For Supercap (EDLC), select the appropriate charge/detect voltages.

Depending on the voltage characteristics and power of Energy Harvesting, the optimal charging circuit and control voltage varies.

TOREX offers optimal power supply configurations to match the characteristics of your energy harvesting.

Please contact : https://product.torexsemi.com/en/contact-us/technical-inquiry

started to charge, and stopped when it drops to 1V.