



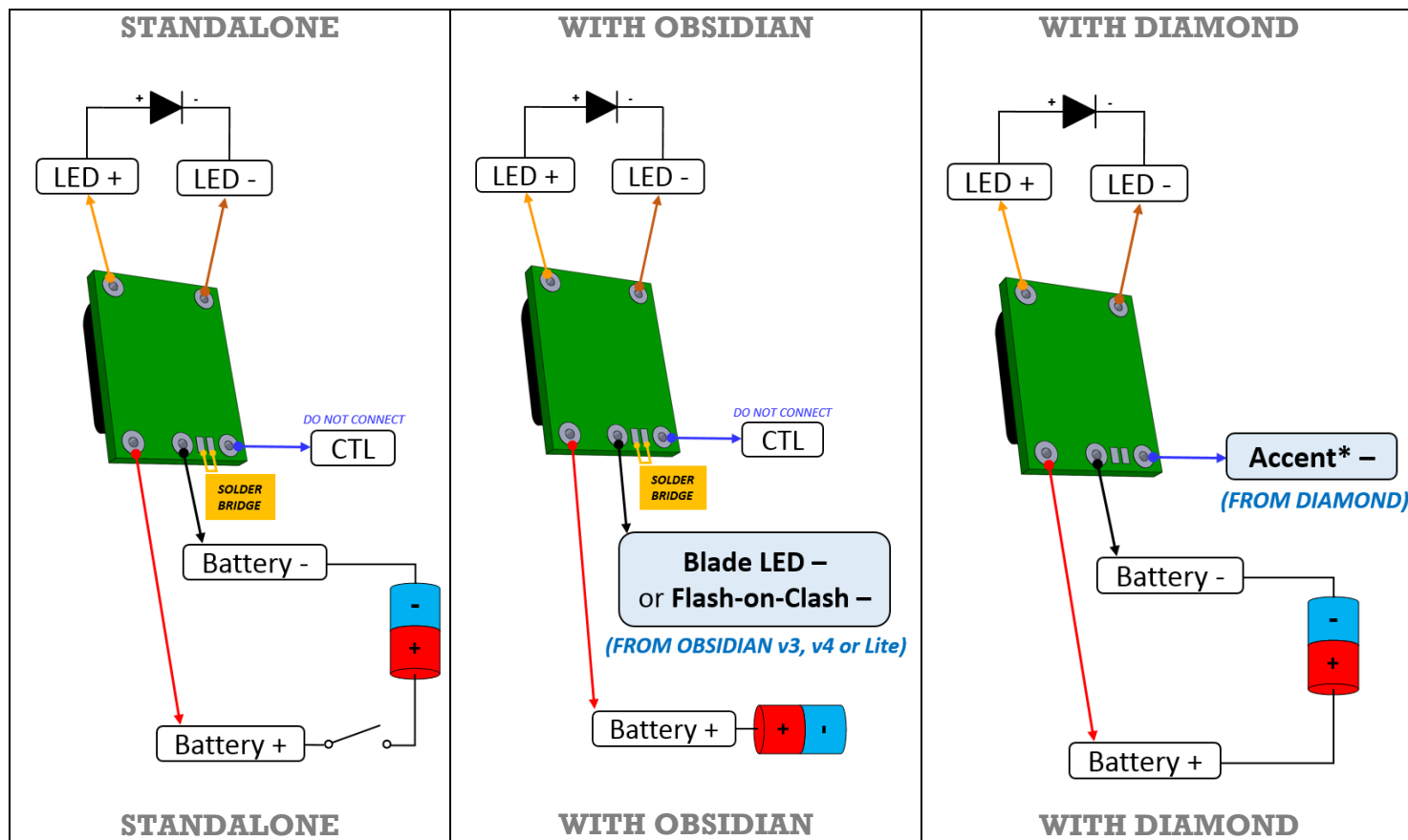
Onyx

LED Buck Regulator

- ✓ LED current regulator
- ✓ 0.7A and 1A versions
- ✓ Obsidian compatible
- ✓ Diamond compatible

Rev. 1.1 / 2017-07-04

Wiring diagram



Functional specifications

- Current regulator for LED
- Standalone operation: drives a LED from batteries without dissipating energy on a resistor. On-Off switch is recommended.
- Obsidian operation: drives on/off the Blade LED or Flash-on-Clash LED without dissipating energy on a resistor.
- Diamond operation: converts a low-power Accent channel into a Power LED channel, allowing full brightness adjustment under the control of the running effect.

Electrical specifications

- Operating voltage: 6 – 9 Vdc
- Recommended battery setup: 2 x Li-Ion (3.7V)
- Maximum LED current: 700 mA or 1000 mA (see marking on board)
- LED current standalone: fixed at maximum
- LED current with Obsidian: fixed at maximum
- LED current with Diamond: controlled by running effect between 0 and maximum

Note: For Diamond operation, the Accent channel must be configured as “Onyx Buck”. Please set this configuration in Ultrasabers Launcher BEFORE wiring the Onyx LED Buck Regulator to the Diamond Controller.

