

Xelaris AG

Amriswilerstrasse 65
8570 Weinfelden
Switzerland

Tel. +41 71 552 08 00
info@xelaris.ch

<https://xelaris.ch>
<https://1st-rc.com>



Version V4.8

Feature Overview:

- 32 bit, 48MHz MCU controlled operation
- Adaptive charging
- Current sensing
- Output for external Alarm*

Operation Range:

- Backup Battery for electric Helicopters for safe emergency landing
- Buffer surge currents on high power model airplanes and helicopters
- Effective buffering of servo reverse current
- Automatic setup**

Maximum Ratings:

- Maximum Voltage (INPUT) 10V
- Maximum buffer Voltage (OUTPUT at full charge) 8.5V
- Surge current 25 Amp

* option in future software releases

** all parameters set automatically except cut-off voltage which is preset for 3.4 Volt. If your system requires a different cut-off voltage, please contact support



CONNECTIONS, LEDs and BUTTON:

| | |
|---------|--|
| AUX: | 3-pin solder port for auxiliary connections* |
| BUTTON: | shutdown system after use |
| FULL: | (green) indicates full charge |
| 60%: | (green) indicates 60%-80% charge |
| 20%: | (yellow) indicates charging active (blinking) or 20%-60% charge (solid) |
| PWR: | (red) indicates system standby (solid) or setup (blinking after startup) or buffer active (blinking during normal operation) |

OPERATION:

- 1) Connection: Install buffer to a free port on your FBL or Receiver
- 2) Power on your Model
- 3) The buffer unit detects operating voltage automatically 5.6 – 10V.
(red LED is flashing)
- 4) Charging will start when setup is complete (yellow LED is flashing)
- 5) Green LEDs indicate charge state.
- 6) When charging is complete, yellow LED is constantly on
- 7) When system is supplying current (buffering surges, servo reverse current or emergency supply) red LED is flashing
- 8) After flight, first power down model
- 9) Press button to shut down system

* option in future software releases