Electromechanical Release Tool PCB by intellegre™ – Specification

(Subject to change)

Table of Contents

1.0 ERT PCB Specifications

1.1 Environmental Rating

Description	Rating
Operating Temperature Range	-20 °F (-29 °C) to 350 °F (177 °C)
Non-powered Maximum Temperature	-58 °F (-50 °C) to 392 °F (200 °C)
Max Thermal Change	9°F (5 °C) / Minute
Mechanical Shock Compliance	Compliant to all hollow carrier gun systems
Vibration (3 axis)	50 g RMS @ Sweep Frequency 50-1000 Hz

1.2 Mechanical Specification

- 2.0” X 1.1” X 0.75” for the ERT PCB
- 1.4” X 1.0” X 0.5” for the Power Supply PCB.

1.3 Electrical Specification

Description	Rating
Operating Voltage Range	18 VDC to 600 VDC
Operating Current– Standby	5mA
Communication Current	Per chosen Telemetry (25ma)
Minimum Cable Head Volage	18V
Motor ON current	110mA to 400mA
Maximum Current Supply Capability	400mA (Controlled at Surface)
Communication Time Frame	All times except during motor operation. Device must be powered Off and then On before initiating another sequence.

1.4 Compatibility

Description	Rating
Detonators – Hot Wire	50 ohms or higher (single or double resistor types)
Igniters – Setting Tools	50 ohms or higher
RF Safe Detonators	PX-1/EBW, RED (all versions), Exploding Foil Initiators
Megger Tester	Incompatible

The product will work with All Detonators and Addressable Switch systems.

2.0 ERT PCB Features

- Voltage Polarity independent can be connected with positive or negative polarity.
- Compatible with multiple addressable switch systems.
- Re-usable; cartridge type system eases modules replacement at end of life.
- Up/Down Communication provides surface with status for every command sequence
- Compatible with all varieties of Gamma Guns and CCL's
- Cartridge replacement recommended every 100 runs.

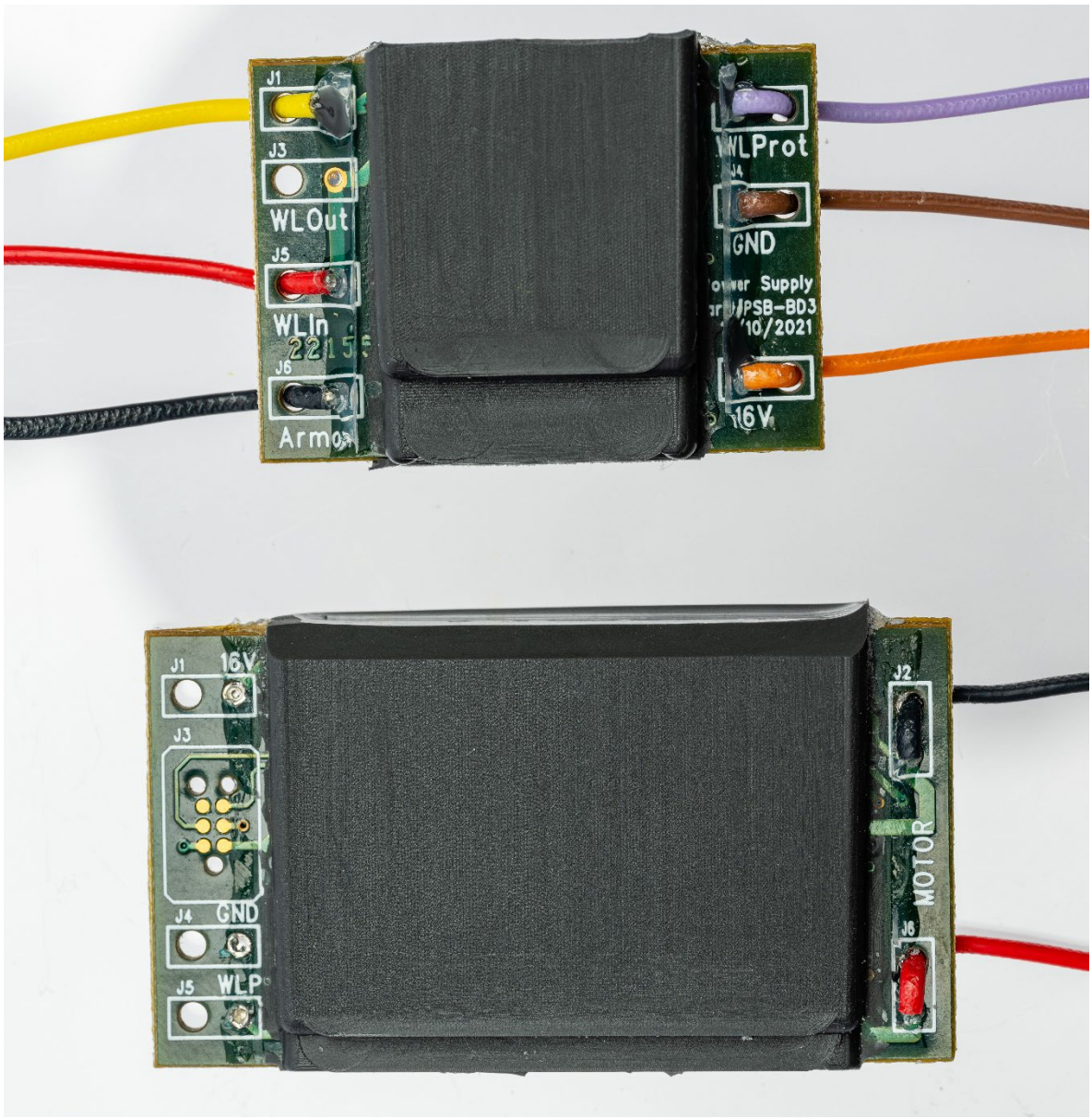

FIGURE 1