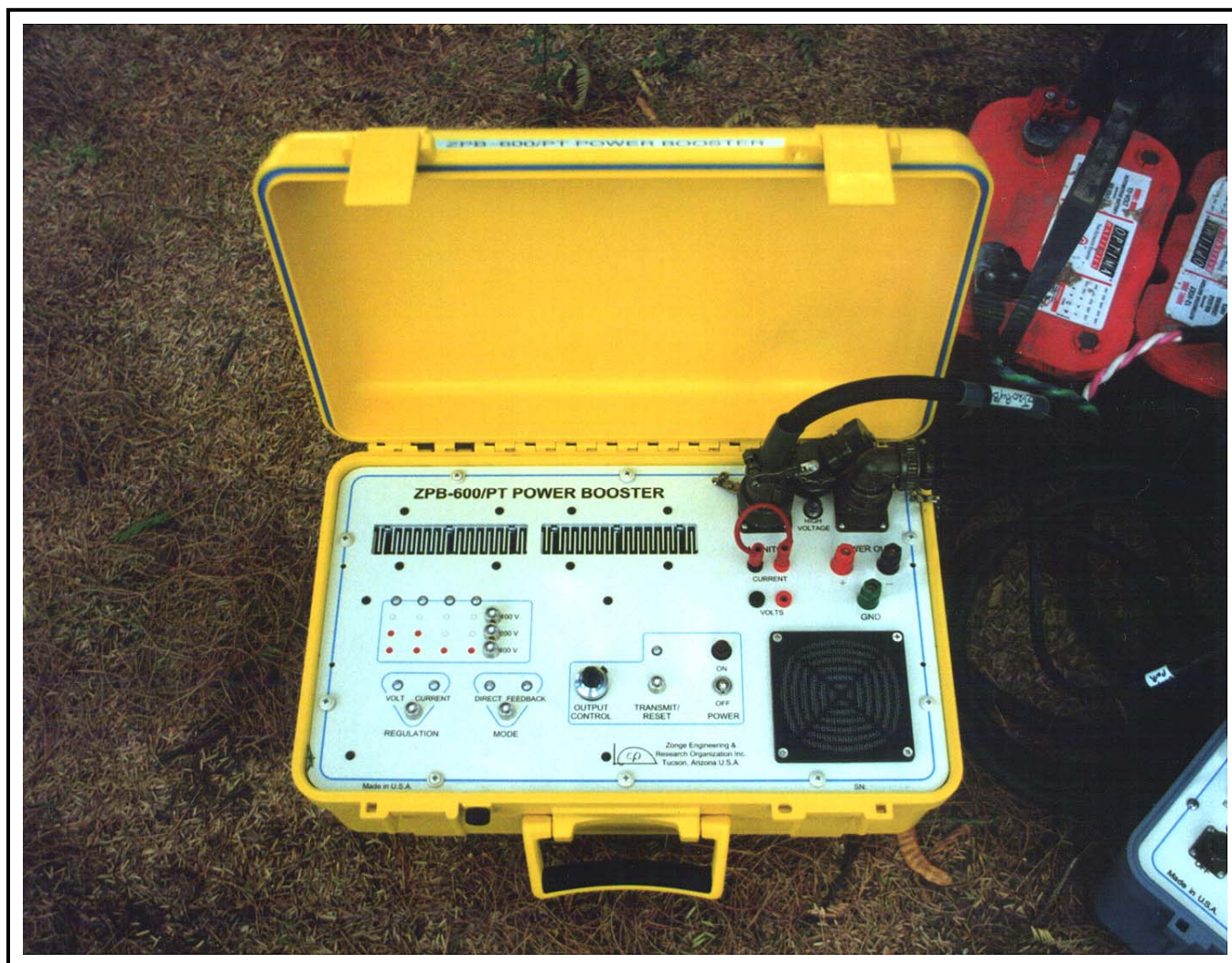


ZPB-600 Power Booster

High Voltage Power Booster



The ZPB-600 is a variable high-voltage DC-DC power supply that can be connected to the ZT-30 TEM Transmitter to provide a source of high-voltage (400 Vdc max) suitable for driving a resistive load such as a grounded dipole. When operating together, the ZT-30 Transmitter with ZPB-600 Power Booster form a battery-powered resistivity / IP transmitter suitable for small-scale engineering and environmental surveys requiring low-powered transmitters.

FEATURES

- 400 VA Output Power in 3 adjustable voltage ranges (100V/4.5A, 200V/2.5A, 400V/1.25A)
- 24 Vdc Input Power
- Light-weight and easily transportable

ZPB-600 HIGH VOLTAGE POWER BOOSTER SPECIFICATIONS

Mechanical

Case size: 45 x 18 x 28 cm

(17.7 x 7.1 x 11.0 in)

Weight: 6.4 kg (14.1lb) (batteries not included)

Electrical

Input Voltage: 21 to 30 Vdc

Output Voltage Range: 45 – 400 Vdc

Output Current: 0 – 4.5 A

Output Power: 400 VA (max)

Fan-cooled heat sink

Controls & Switches

Power ON / OFF

Output Voltage Selector: 100V / 200V / 400V

Regulation Selector: Volt / Current

Mode Selector: Direct / Feedback

Output Control Potentiometer

Output Reset Switch

Indicator Lamps

Output Configuration LED^s (4) –
100V/200V/400V

Regulation LED^s – Volt / Current

Mode LED^s – Direct / Feedback

Power ON LED

HV Output LED

Output Jacks

Current Monitor terminals (banana jack)

Voltage Monitor terminals (banana jack)

Input Power

External battery: 21 – 30 Vdc

Main Power connector: four-pin military twist-lock

Applications

Engineering-scale DC Resistivity / IP
(when mated with ZT-30 TEM Transmitter)

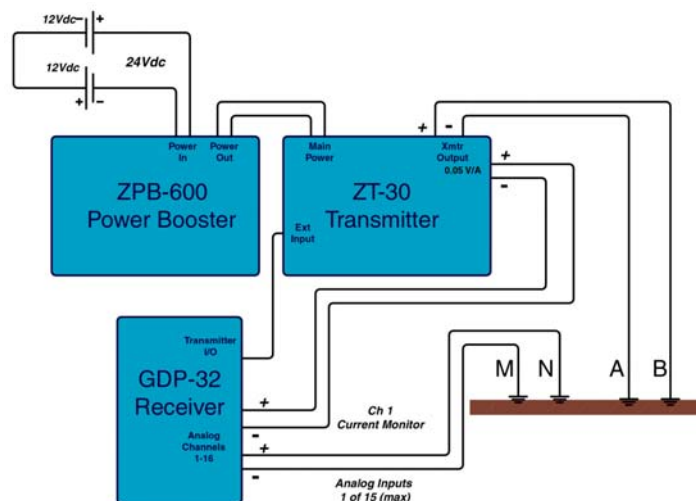


Figure 1: Functional block diagram showing a battery-powered Resistivity/IP system consisting of a ZPB-600 / ZT-30 Transmitter together with a Zonge GDP-32 Receiver.

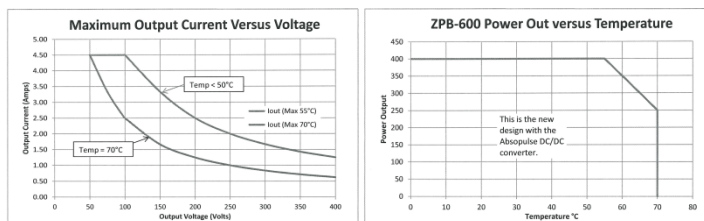


Figure 2: ZPB-600 (left) and ZT-30 (right) Figures 3 and 4.

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Specifications subject to change without notice
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