



ZT100-B

Geophysical Transmitter

The ZT100-B is a modern geophysical transmitter for use in a wide variety of EM methods. With its high current output, advanced safety features, and lightweight design, it is ideal for use in demanding applications. The ZT100-B can be combined with a variety of power supplies in a 19" rack and can be controlled remotely.

Features

- 100 A output current
- 1200 V output voltage
- GNSS disciplined timing
- 50% and 100% duty cycle
- User defined ternary waveforms
- Wireless remote control
- Isolated analog monitoring outputs

Applications

- TEM - Loop or Dipole
- CSAMT
- IP 50% and 100% duty cycle
- Complex Resistivity - Spectral IP
- CSEM - Land and Marine

Specifications

Input

Digital supply voltage	85 - 264 VAC
Instrument Input Connector	IEC C14
Minimum Input Voltage	2 VDC
Maximum Input Voltage	1000 VDC
DC Input Connector	Amphenol SurLok™

Output

Maximum Current	100 A
Maximum Output Voltage	± 1000 VDC
Output Connector	Amphenol SurLok™

Synchronization

GNSS synchronization	GPS, Glonass, Baidu
GNSS time base	< 20 ns in clear sky
GNSS time base	< 2 ns

Monitoring Outputs

Current monitor	Isolated 20 mV/A
Voltage monitor	Isolated 2 mV/V
Polarity monitor	Digital 3.3 V logic signal
ON/OFF monitor	Digital 3.3 V logic signal

Signal Generation

Standard duty cycle	50% or 100%
Standard frequency range	1/1024 Hz to 8192 Hz
User programmable states	positive, off, negative
User programmable state machine	5 banks, with 65536 states

External control Options

Wireless control	2.4 GHz Wi-Fi (802.11 b/g/n)
Wired control	CAN Bus
External timing control inputs	ON/OFF and polarity

Size / Weight

Form factor	19" rack 2 U
Dimensions, W, H, D	483 mm, 90 mm, 370 mm
Weight	6.2 kg

Safety features

- Emergency button
- Input for additional emergency buttons
- Over-voltage, under-voltage,
- over-current, over-temperature
- Remote controllable, hands off operation
- Impedance check before transmitting
- User selectable output impedance window
- User selectable input voltage window