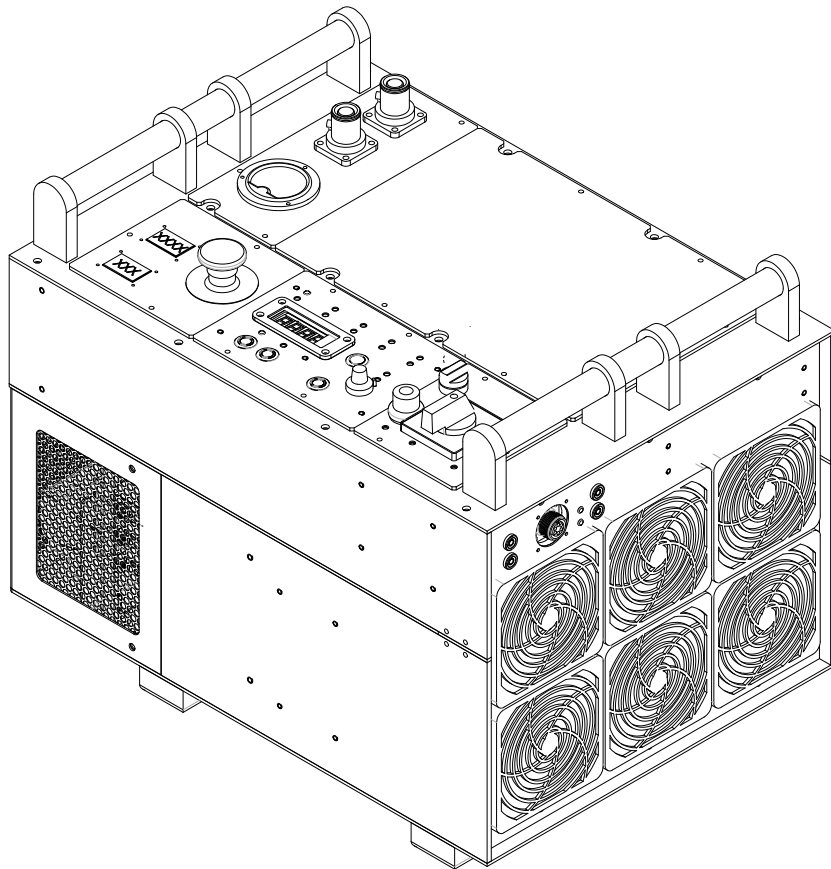


GGT-30B

Geophysical Transmitter

High Power and Fast Turn-off *EM / Low Voltage Resistivity Transmitter*



FEATURES

- Constant current supply
- Used for time/frequency domain IP, Resistivity, CR, TEM, FEM, CSAMT
- Broad-band: DC to 8 kHz
- Output up to 1000 V, 45 A
- Fast turn-off time: 125 μ s (300 x 300 m loop)
- Drives a loop or grounded dipole
- Efficient, modular design
- Rugged design reliable in all climates

SPECIFICATIONS FOR THE GGT-30B TRANSMITTER

General

Description: Broadband, constant-current, time and frequency domain, high-power geophysical transmitter
Enclosure: Anodized blue aluminum case
Size: 56 x 40.8 x 43.2 cm
Weight: 71.4 kg
Operating temperature: -40° to +55°C (-40° to +130°F)
Operating humidity: 0 to 90%, non-condensing

Electrical Characteristics

Drives a loop or grounded dipole
Turnoff time: Under 10 μ s for a resistive load;
125 μ s for a 300 x 300 m loop (16 ohms resistance, full current)
Maximum input: 30KVA @ 30°C
Output voltage range: 50 to 1000V
Output current range: 0.2 to 45A
Current stability: \pm 0.2%
Frequency range: DC to 8 kHz

Switching Control

Switching controlled by external device
Recommended transmitter controller: Zonge XMT, GDP or ZEN
Waveform type: Capable of virtually any type of pulse waveform, limited by external controller device

Controls

Power ON / OFF
Transmit / Reset switch
Current adjust pot, continuously adjustable, locking
Voltage range TAP switch
50-250V
200-500V
450-750V
700-1000V)

Displays

Analog input voltage meter, 0-150 V
Analog output voltage meter, 0-1000 V
Power On / Off LED, transmit LED, output LED
3&1/2 Digit Operating Information Display
Output current
Loop turnoff time (iseconds)
Transformer temperature (°C)
Input power (KW)
Indicator LEDs: power on, transmit on, transmit polarity
Fault indicator LEDs: output and input overcurrent, output and input overvoltage, end of regulation, generator overvoltage, open circuit, phase error

Output Jacks

Isolated Output Current (10mV/A)
Isolated Output Voltage (10mV/V) Optional

Power

Three-phase, 120 VAC, 400 Hz \pm 15 Hz
Recommended motor generator set: Zonge ZMG.
Power connector: Hubbell, 4-Pole, 5-Wire.

Options

IGBT spare module
SCR spare module
ZCM-10 Isolated Output Voltage (10mV/V) current monitor isolation amplifier module
LB6000 Resistor load bank
ETS-9 Switch box for rapid switching of dipole pairs

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