

# ZONGE GGT-30 TRANSMITTER

## High Power IP/EM Source

### FEATURES

- Constant current supply
- Used for time/frequency domain IP, Resistivity CR, TEM, CSAMT
- Broad-band: DC to 8 kHz (standard)
- Outputs up to 1000 V, 45A
- Fast turn-off time: 125  $\mu$ sec (300 x 300 m loop)
- Drives a loop or grounded dipole
- Efficient, modular design for quick field repair
- Rugged design reliable in all climates



## SPECIFICATIONS FOR THE GGT-30 TRANSMITTER

### General

Description: Broad-band, constant-current, time and frequency domain, high-power geophysical transmitter

Enclosure: Welded, hardened aluminium frame with removable side panels, non-conducting paint

- Size: 78 X 46 X 45 cm (31 X 18 X 18 in)
- Weight: 93 kg (205 lb)
- Operating temperature: -40° to +55°C (-40° to +130°F)
- Operating humidity: 0 to 90%, non-condensing

### Electrical Characteristics

- Drives a loop or ground dipole
- Turn-off time: Under 10  $\mu$ sec for a resistive load; 125  $\mu$ sec for a 300 x 300 m loop (16 ohms resistance, full current)
- Maximum input: 30 KVA @ 30°C
- Output voltage range: 50 to 1000V
- Output current range: 0.4 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-16
- 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 switch: (50 to 250 V, 200 to 500 V, 450 to 750 V, 700 to 1000 V)
- Loop/dipole select switch

### Displays

- Analog input voltage meter, 0 to 150 V
- Analog output voltage meter, 0 to 1000 V
- Power on/off lamp, transmit lamp, output lamp
- Output current LCD (reads to  $\pm$ 0.1 A)
- Indicator lamps: Control power on, transmit on, transmit polarity
- Fault indicator lamps: Output and input over-current, output and input over-voltage, end of regulation, alternator over-voltage, open circuit, over-temperature

### Output Jacks

- Current calibrate terminals (50 mV/A)
- Output current terminals
- Grounding jack

### Power

- Three-phase, 120 VAC, 400 Hz
- Recommended motor/generator set: Zonge ZMG-30
- Power connector: four-pin military screw-type with locking ring

## For Rental Information:

### Geoterrex-Dighem Pty. Limited

Phone: (61)(2) 9418 8077

Fax: (61)(2) 9418 8581

email: [ground.dept@geoterrex.com.au](mailto:ground.dept@geoterrex.com.au)