• 50 Amperes (T-15)
• 60 Amperes (T-30)
• 1000 Volts
• The most versatile geophysical current source available for all electrical and electro-magnetic techniques

<table>
<thead>
<tr>
<th>IP</th>
<th>Induced Polarization: Frequency and Time Domain, Phase and Spectral IP</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSAMT</td>
<td>Controlled Source Audio MT in scalar, vector, and tensor modes</td>
</tr>
<tr>
<td>TDEM,</td>
<td>All common Time and Frequency Domain Electromagnetics functions</td>
</tr>
<tr>
<td>FDEM</td>
<td></td>
</tr>
</tbody>
</table>
The most advanced controlled current source available for electrical methods exploration. It combines modern technology with thirty years of transmitter design experience.

The Multi-X is offered in two versions, identical in all aspects except for power and weight. The T-30 is the more powerful version (30 kW), while the T-15 is the lighter weight version.

These transmitters can be used for many geophysical techniques, including conventional Induced Polarity (IP) in the time, frequency or phase domains; true wide-band spectral IP; Controlled Source Audio Magnetotellurics (CSAMT) in scalar, vector, and tensor modes; Time Domain Electromagnetics (TDEM) and Frequency Domain Electromagnetics (FDEM).

The transmitter load can be either a grounded dipole or a loop, depending on the requirements of the application. The rapid controlled turn-off into inductive loads is suitable for TDEM applications.

A very wide range of standard binary-related timing options is provided, as well as an input connection for an arbitrary external timing device.

These units also feature a variety of protective circuits, built-in receiver calibration circuitry, current monitor output for external deconvolution, constant current control, and semi-infinite impedance in the off-time when used for time-domain IP.

The standard power source for both units is the MG-30 motor generator. However, any suitable MG can be used; it is not necessary to purchase the MG from Phoenix. (Consult us for guidance in the selection of another.)

Frequency: DC–8096Hz
Volts: Maximum 1000V
Current: Maximum 60A
Weight: 75kg (T-15); 90kg (T-30)
Frequency stability: Better than 0.01% (internal timing)
Ramp turn-off time: <100µs into 200m x 200m loop

**MG-30**

High performance motor generator—highest power-to-weight ratio, designed for portability.

This standard power supply for the T-15 and T-30 transmitters was developed especially for field use in rugged areas, combining moderate weight with high power from an automotive rotary engine. The MG-30 weighs only 400kg, so it can be easily mounted on a small trailer or pickup truck, or even carried by helicopter where access is especially difficult. Direct drive eliminates the inefficiency, alignment problems, and wear-and-tear associated with belt drives.

The 30kW rating is conservative; the unit can be configured to a higher power when fitted with a suitable alternator.

Where light weight is not the most important factor, the MG-30 can be supplied with standard gasoline or diesel engines, in 60 or 400Hz configurations and with output voltages of 100V, 208V, or higher if requested.