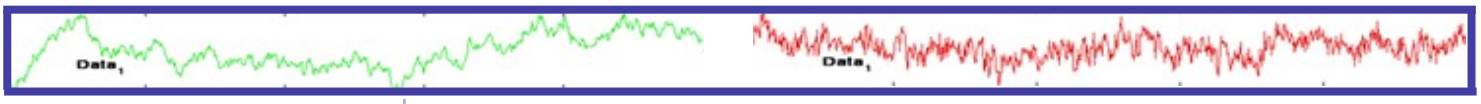
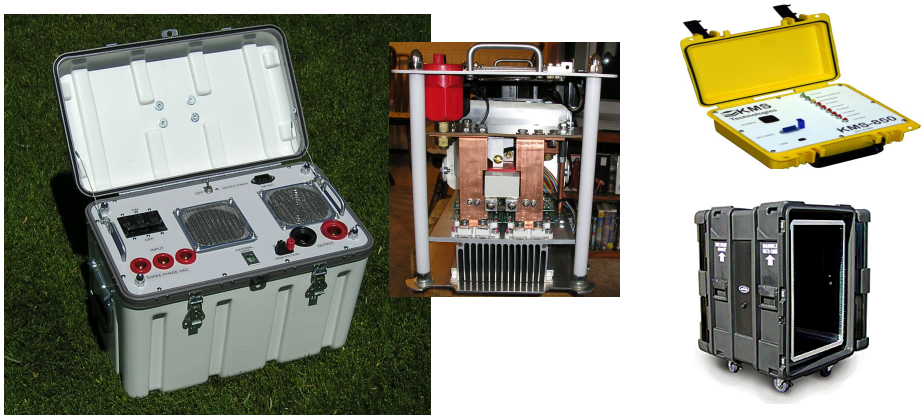
KMS Technologies
Innovating Solutions

Grounded dipole TEM transmitter



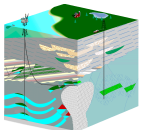
KMS-5100 grounded dipole TEM transmitter

KMS-5100 (100 kW)



KMS-5100 land EM transmitter in portable field box, inside view. Timing and system response controller, and optional shock mounted, dustproof case.

The KMS-5100 TEM land transmitter is developed to provide a controlled current source for geophysical exploration techniques including frequency domain (CSEM & CSAMT) Time Domain EM (LOTEM), and Time Domain Induced Polarization (IP).



Product features

- Maximum power output: 100 kW, controlled with linear fast ramp.
- Works with almost any input voltage source
- GPS synchronized timing control for transmitter signal measurement.
- Long-range wireless for remote control and monitoring.
- Linear ramp better than 5 µs turn off characteristic.
- Bi-polar reversing ramp time < 20 5 µs
- Suitable for Time domain EM (TDEM or LOTEM), Induced polarization (IP) (time domain) etc. with target depth of 600 m and deeper.
- Ideal for deep EM geophysical applications (several kilometers)
- Ruggedized design for field operations (several units) or in one ruggedized transport case
- Suitable for variety methods, monitoring data on SD card. Unit includes KMS 810 or 820 as controller, cables and sensors.
- Transmitter operation procedures/schedules are downloaded through wireless/USB interface or pre-saved to the SD card.

KMS Technologies

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Current waveform	*Reversing polarity square (100% duty cycle) or bipolar with off-time (firmware selectable from 0.001 Hz to 100 Hz)*
Transmitter type	*Dipole source*
Maximum output current	*Tested 600 A reversing polarity.* *Depends on the grounded power voltage and resistance*
Maximum output voltage	*550 V*
Input power	*12 to 480 volts, A.C. or D.C.* *Single or 3-phase A.C., 50 – 60 Hz* *100 Amps*
Output waveform	*Controlled by TTL driving signal (external or internal)*
Switching frequency range	*Up to 1 kHz*
Output pulse width	*10 ms to continuous*
Maximum power output	*100 kVA at 25° C*
Output measurement	*32-bit standard up to 4K Hz* *24 bit (optional) sampling up to 100 KHz*
Dimensions	*KMS-5100: 0.49 m x 0.36 m x 0.39 m (L x W x D) (14U)*
Operating environment	*-20° C to 50° C* *-35° C to 50° C (storage)*
Weight	*KMS-5100: 18.82 kg*
Duty cycle	*100%, 75 %, 25%, 10%*
Time/frequency domain operation	*Front panel toggle switch to select internal or external time/frequency operation of 4 time periods: 5 sec, 10 sec, 15 sec, 20 sec*
Synchronization	*GPS ± 0.5 µs*
User interface	*Long range wireless, 802.11, USB*
Heat sink temperature monitoring	*Yes*
Protection	*Over temperature and current*
Data storage	*Data is saved to SD card*