# Gator™

# CLASS A TRANSMITTER SERIES

## THE WORLD'S MOST POPULAR STIMULUS TRANSMITTER


**FCC Type Accepted & CE Approval**

Available Frequencies:
PCS ■ Cellular ■ LMR ■ GSM ■ SMR ■ UMTS ■ Wi-MAX
AWS ■ MMDS ■ iDEN ■ AMPS ■ ETACS ■ PACS ■ Paging

All Gator™ transmitters feature Class A power amplification, rugged, weatherproof housing and built-in VSWR antenna protection. It's light weight makes Gator a versatile transmitter suited for both field and laboratory work.

*"PERFECT FOR MEASURING SIGNAL PROPAGATION, POSITIONING ANTENNAS, SETTING POWER LEVELS OR VALIDATING RF COVERAGE."*

Gator features an agile frequency synthesizer, dynamically controlled power amplifier and a built-in modem and DTMF (touch tone) decoding for remote control of all transmitter parameters via a phone line or cellphone. Remote adjustments include the power level, channel or frequency assignment, and transmit On/Off. Included Windows® PC controller software and user adjustable knobs allow for pinpoint accurate adjustments in 0.1 dB increments, frequency adjustments and step size. Gator may be powered by standard 110-240 VAC power from any outlet, generator or battery-powered DC source. Dual cooling fans provide excellent heat dissipation and ensure the purest RF signal output. GSM modulated schemes and custom frequencies available upon request.

## FEATURES:

- Pure spectrum Class A power amplifier
- Weighs only 23 pounds
- Power amplifier with continuous adjustable power output ± 0.1 dB over 32 dB range
- Water resistant, rugged 18" x 15" x 6" ABS plastic case
- Microprocessor-controlled with front panel soft-keys or remotely controlled with an internal modem allowing for user programmable modulation schemes, power levels, channels, and frequencies
- Calibration/Usage intergrated hours meter
- 240 x 64 LCD with vacuum fluorescent backlighting
- VSWR antenna protection and internal forward and reverse measurement
- Dual cooling fans
- Built-in thermal overheat protection for amplifier
- Battery backed-up SRAM stores all user selectable parameters in the event of a power loss
- Powered from 110-240 VAC 50/60 Hz, UL, CSA approved
- CW identifier for FCC CP identification
- All parameters can be adjusted remotely via RS-232 or the internal modem or DTMF signaling tones

Gator may be easily suspended from a crane or other temporary structure for pre-network RF propagation studies.

Gator is perfect for positioning antennas and setting power levels.

**www.bvsystems.com**

Call us today for more information:
TOLL FREE 1-888-737-4287 / Fax: (732) 548-3404
www.bvsystems.com
sales@bvsystems.com

Berkeley Varitronics Systems®
Clarifying RF
Providing wireless solutions for over 35 years.

# Gator™ CLASS A TRANSMITTER SERIES

## SPECIFICATIONS

## FREQUENCY RANGES:

Cellular, WiMAX, LMR, Paging, SMR, GSM, ISM, WCS, iDEN, AMPS, PACS, ETACS, IS-136, AWS and more

Class A models available in 25 or 45 Watt output power:

700 MHz
850-870 MHz
800-900 MHz
850-900 MHz
930-970 MHz

**25 or 45 Watts**

*110/220 VAC or 24 VDC*

1.805 - 1.880 GHz
1.85 - 2.10 GHz
2.10 - 2.17 GHz
2.3 - 2.36 GHz
2.4 - 2.49 GHz
2.5 - 2.7 GHz
3.4 - 3.7 GHz (10 watt only)

**10 or 20 Watts**

*110/220 VAC or 12 VDC*

Please inquire about specific frequency, output power, and channel spacing when ordering. Optional GMSK modulator.

## GENERAL SPECIFICATIONS:

| | |
|---|---|
| **Display** | 240 X 64 pixel graphic supertwist LCD (VF backlighted)<br>Stability is less than 1.5 PPM for first year, ± for 1 PPM for aging |
| **Output Power** | Continuous adjustable power output ± 0.1 dB over 32 dB range<br>(below 1 GHz) CLASS A AMPLIFIERS |
| **Power Adjustments** | Continuously adjustable via rotary knob or direct keypad entry in<br>1 dBm increments over 17 dB on models above 1 GHz |
| **Spurious Output** | > 55 dBc (decibels below the carrier level) |
| **Harmonics Output** | > 55 dBc (decibels below the carrier level) |
| **Power** | 110-240 VAC 50/60 Hz, autoswitching, UL and CSA approved<br>PCS 10 and 20 Watt models may also be powered from + 12 VDC<br>All other models from + 24 VDC |
| **Remote Control** | Via serial RS-232, internal modem or DTMF through telco |
| **Output Power Monitoring** | Both forward and reverse power monitored via internal power meters.<br>The output is regulated to < ± 1.0 dB of setting at up to a 6:1 VSWR |

## MECHANICAL:

| | |
|---|---|
| **Case Size** | 18” x 15” x 6” |
| **Weight** | 23 lbs. (lightest transmitter in the industry) |

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