

# The Gator™

## CLASS A TRANSMITTER SERIES

FOR MEASURING SIGNAL PROPAGATION, POSITIONING ANTENNAS,  
SETTING POWER LEVELS OR VALIDATING COVERAGE



Each Gator Transmitter is housed in a high impact ABS water resistant case. It has a built in agile frequency synthesizer, dynamically controlled power amplifier and a built-in modem and DTMF (touch tone) decoding allowing remote control of all transmitter parameters via a phone line or cellular telephone. Remote adjustments include the power level, channel or frequency assignment, and transmit On/Off. All Gator transmitters feature Class A amplifiers for the purest output and pinpoint accuracy adjustments in 0.1 dB increments.

### FEATURES:

- Available in either 25 Watt Class A, or 45 Watt Class A (10 or 20 Watt Class A for PCS)
- Pure spectrum Class A power amplifier
- Weighs 25 pounds
- Power amplifier with continuous adjustable power output  $\pm 0.1$  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

### FCC Type Accepted & CE Approval

Available Frequencies:

- PCS ■ Cellular ■ LMR ■ GSM ■ SMR ■ UMTS ■ WiMAX
- MMDS ■ iDEN ■ AMPS ■ ETACS ■ PACS ■ Paging

Available from stock

The Gator Class A Transmitters are just some of many exceptional design solutions from Berkeley Varitronics. Call us today for more information:

(732) 548-3737 / Fax: (732) 548-3404  
www.bvsystems.com  
info@bvsystems.com





# CLASS A TRANSMITTERS

## SPECIFICATIONS

### FREQUENCY RANGES:

PCS Class A models available in 10 or 20 Watt output power:

Continually tunes from 1850-2100 MHz\*\*, covering both Forward, Reverse, and unlicensed bands

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

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

- 800-900 MHz
- 850-950 MHz
- 930-970 MHz
- 1920-1980 MHz
- 2.100-2.170 MHz
- 2.3-2.5 GHz
- 2.4-2.49 GHz
- 2.5-2.7 GHz
- 3.4 GHz

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

### GENERAL SPECIFICATIONS:

#### Display

240 X 64 pixel graphic supertwist LCD (VF backlighted)  
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 (below 1 GHz)

#### Power Adjustments

Continuously adjustable via rotary knob or direct keypad entry in 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  
PCS 10 and 20 Watt models may also be powered from + 12 VDC  
All other models from + 24 VDC

\* Externally powered from +24 volts DC

\*\* Models may be powered externally for +12 volts DC

#### 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.  
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.

### OPTIONS:



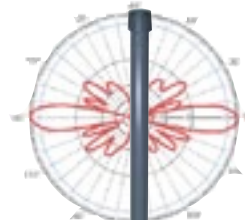
Optional Portable Power Station for up to 10 hours of continuous power in remote locations



Optional Honda generator (BVS approved) quietly runs you Gator all day long (>5 hours continuous).



Optional Transmitter Raincoat keeps case clean and provides extra protection in driving rain.



Optional recommended 2.5-2.7 GHz omni-directional antenna for WiMAX studies

