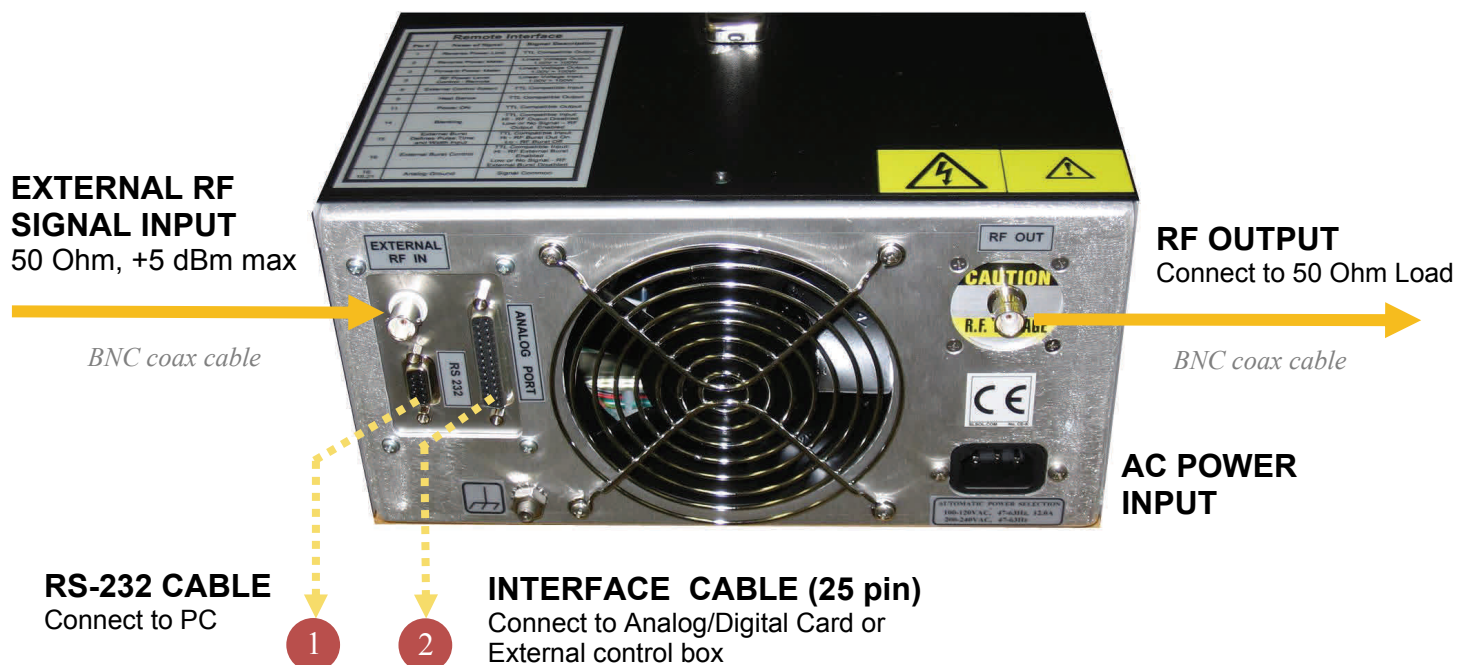


Thank you for using our equipment. This is a guide to help you set up your T&C AG Series Generator/Amplifier. Please identify the following accessories in your package to get started:

- AC Power Input cable
- DB-9 cable (9-pin)
- DB-25 cable (25-pin)
- BNC coax cables (NOT provided by T&C without specific request)



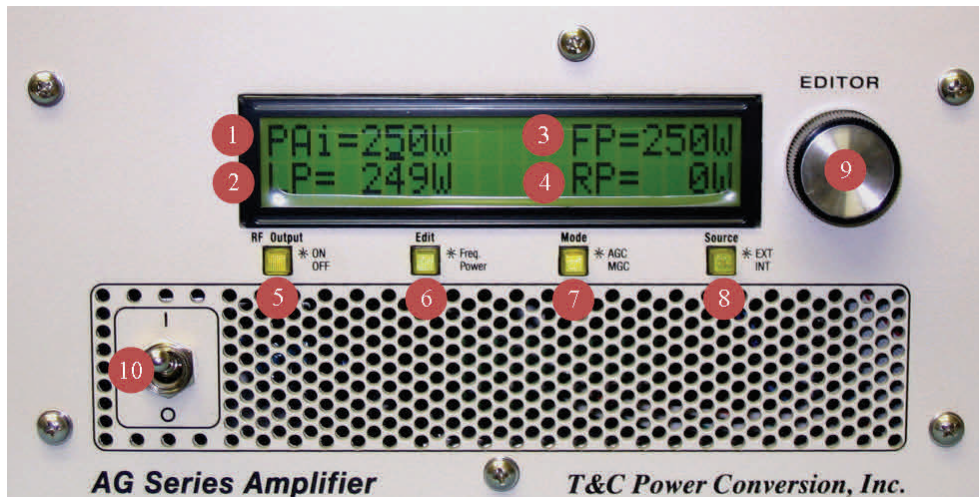
1. RS-232 I/O port

Pin #	Name of Signal	Signal Description
2	Data from Controller to PC	Output
3	Data from PC to Controller	Input
5	GND	Signal common ground
1,6,7	Quasi HANDSHAKING for PC	Pins shorted on Controller side, output
4,8	Quasi HANDSHAKING for PC	Pins shorted on Controller side, output

2. Hardware (Analog/Digital) port

Pin #	Name of Signal	Signal Description
1	Reverse Power Limit	TTL compatible output
2	Reverse Power Meter	Linear voltage output, 1.00 V =100W
3	Forward Power Meter	Linear voltage output, 1.00 V =100W
5	External RF Power Reference	Linear voltage input, 1.00 V =100W
8	External Control Select	TTL compatible input
9	Heat Sense	TTL compatible output
11	Power ON	TTL compatible output
14	Blanking	TTL compatible input: Hi – RF Output Disable Lo or no signal – RF Output Enable
15	External Burst (RF Output ON/OFF time defined by this INPUT)	TTL compatible input: Hi – RF Burst Output Lo – RF Burst Off
16	External Burst Control	TTL compatible input: Hi – RF External burst Ready Lo or no signal – RF External Burst Disable
18,19,21	Analog Ground	Signal Common

FRONT PANEL CONTROLS



1) REQUESTED POWER or FREQUENCY

- PAi or PAe (Watts); automatic, internal vs. external
- PMi or PMe (% power); manual (non-linear) scale, internal vs. external
- F (MHz); frequency of operation

2) LOAD POWER

ABSORBED = FWD - REV

3) FORWARD POWER

FWD = REV + LOAD POWER

4) REVERSE POWER

REVERSE = FWD - LOAD POWER

5) RF ON/OFF BUTTON

Illuminated: RF ON

Not illuminated: RF OFF

6) EDIT SELECTION BUTTON

Illuminated: FREQUENCY

Not illuminated: POWER

7) MODE SELECTION BUTTON

Illuminated: Automatic Gain Control (**AGC**) in Watts

PAi - from INT source, **PAe** - from EXT signal source

Not illuminated: Manual Gain Control (**MGC**) in %

PMi - from INT source, **PMe** - from EXT signal source

8) RF SOURCE SELECTION BUTTON

Illuminated: RF Input Signal from EXT

Not illuminated: RF Input Signal from INT; - unit works like a generator.

9) POWER / FREQUENCY SETTING KNOB

Fine Adjustments: use the knob in its default

Fine-to-Course Adjustments: press knob to adjust resolution of setting

10) AC ON/OFF SWITCH

T&C Power Conversion Support Team

www.tcpowerconversion.com

support@tcpowerconversion.com

Phone: 1-585-482-5551