

# AG Series Quick User Guide

## FRONT PANEL

**REQUESTED POWER OR FREQUENCY**  
**PAi or PAe** - in [W]  
**PMi or PMe** - in [%] of the power range  
 NOTE! [%] scale is not linear.  
**F** = ... in [MHz]

**FORWARD POWER**  
 (FWD = REV + LOAD POWER)

**REVERSE POWER**  
 (REVERSE = FWD - LOAD POWER)

**POWER / FREQUENCY SETTING KNOB**

Fine Adjustments - use the knob in its default  
 Fine-to-Course Adjustments - depress the knob  
 quickly for a few times to move the cursor to  
 the selection of your choice

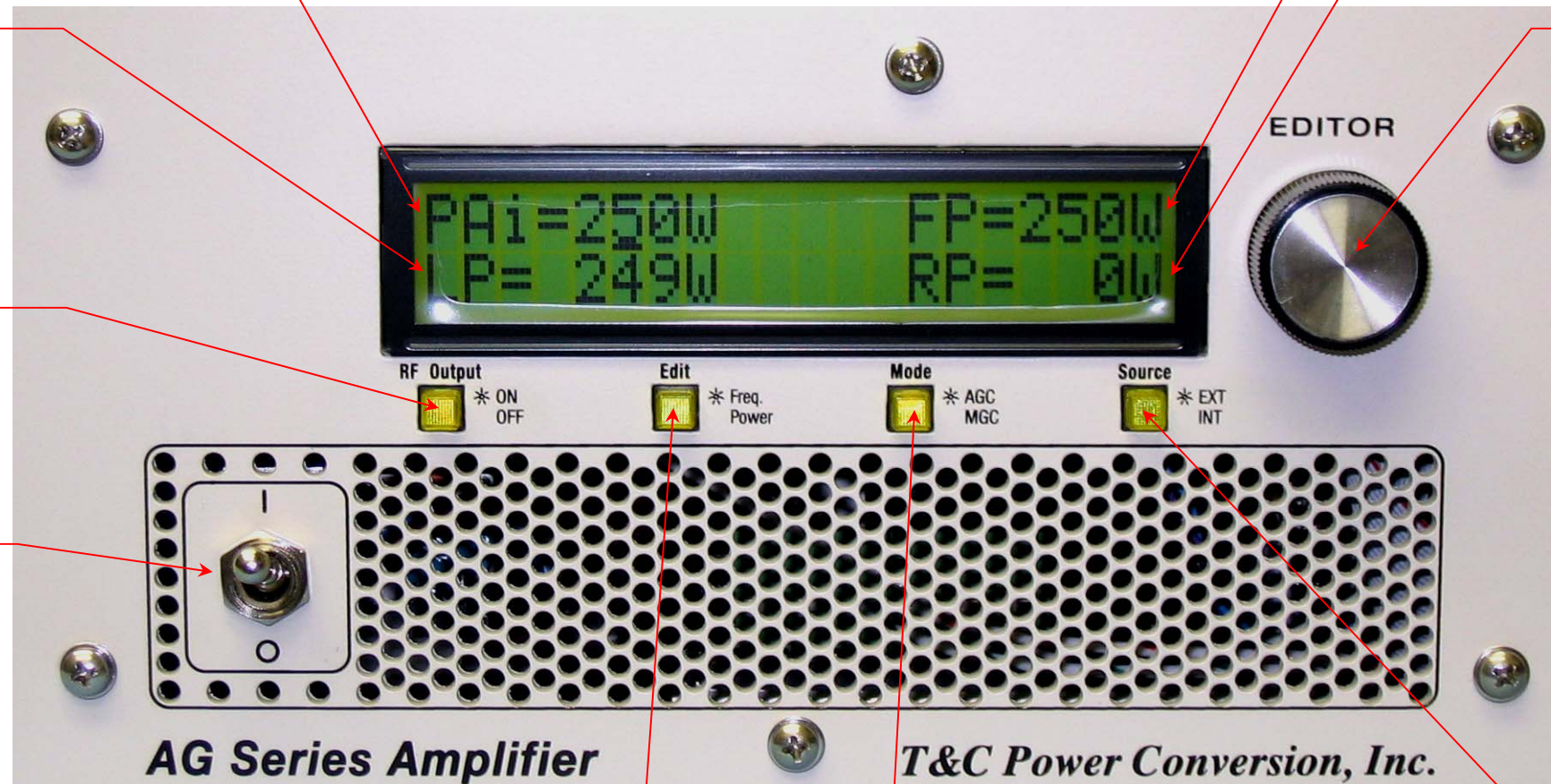
**LOAD POWER**  
 (ABSORBED = FWD - REV)

**RF ON/OFF BUTTON**  
 Illuminated - RF ON  
 Not illuminated - RF OFF

**AC ON/OFF SWITCH**

**EDITOR SELECTION BUTTON**

Illuminated - FREQUENCY  
 Not illuminated - POWER



**MODE SELECTION BUTTON**  
 Illuminated: - Power setting in Automatic Gain Control AGC in [W]  
**PAi** - from INT source, **PAe** - from EXT signal source  
 Not illuminated: - Power setting in Manual Gain Control MGC in [%]  
**PMi** - from INT source, **PMe** - from EXT signal source

**RF SOURCE SELECTION BUTTON**

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

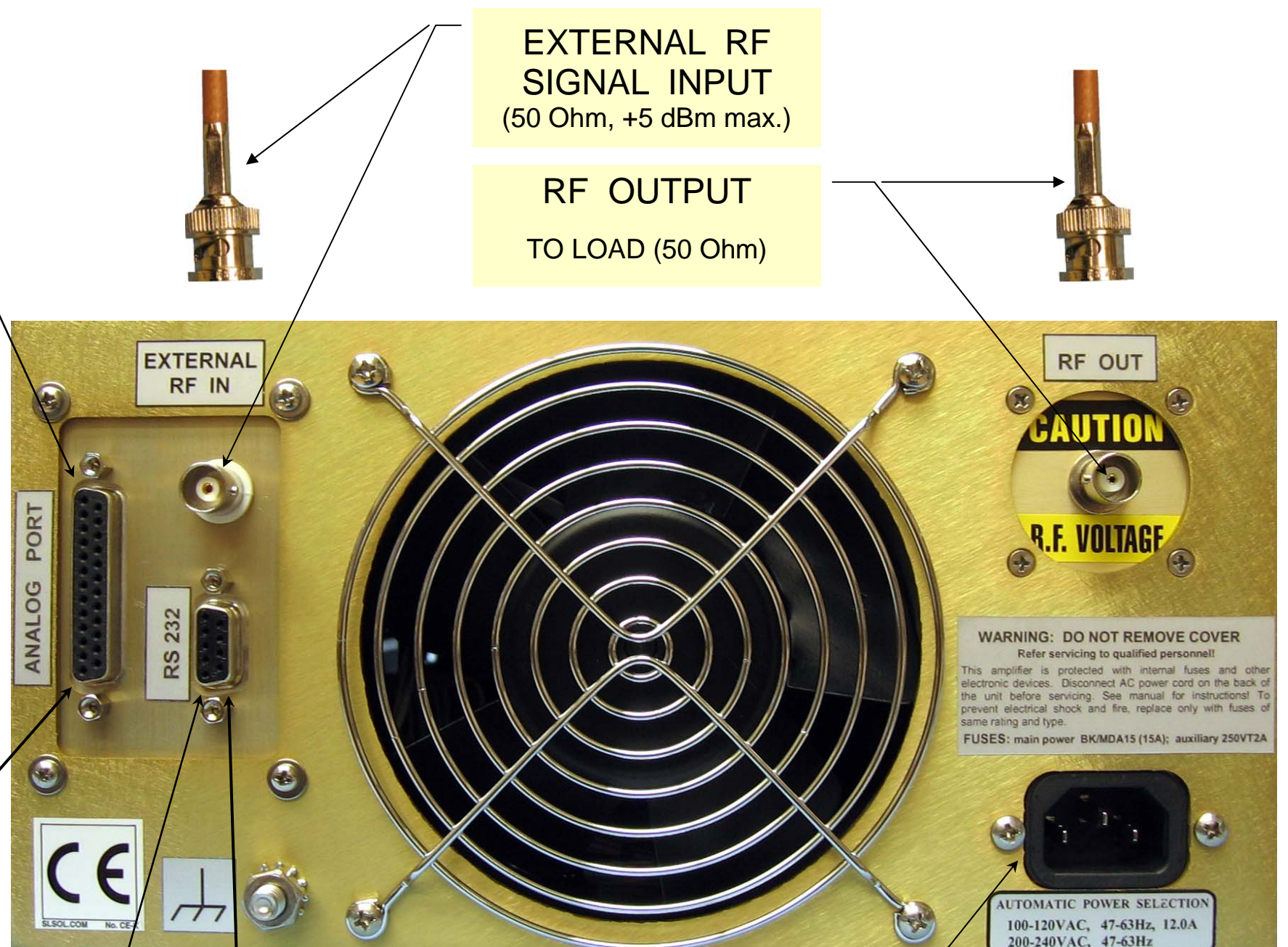
## BACK PANEL

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

**EXTERNAL RF SIGNAL INPUT**  
 (50 Ohm, +5 dBm max.)

**RF OUTPUT**  
 TO LOAD (50 Ohm)



**INTERFACE CABLE**  
 25 Pin SubD connector  
 To ANALOG/DIGITAL CARD or  
 EXTERNAL CONTROL BOX

**AC POWER INPUT**

**RS 232 CABLE**  
 9 Pin SubD connector  
 TO PC

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