



PSSPA-1G1.5G-10000

10000W Pulse SS Amplifier

Solid State Pulse Power RF Amplifier

The PSSPA-1G1.5G-10000 is a Solid State 10000W (Pulse) RF Amplifier which covers frequency range from 1.0GHz to 1.5GHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty.

Parameter	Specification
<u>Electrical</u>	
Frequency Range	1.0-1.5 GHz
Output Power	10000W Peak
Gain Variation	±3dBm
Gain @ rated power	70dB
Input /Output Impedance	50 ohms(VSWR 2.0:1)
Load VSWR	1.5:1 max
Harmonics	-20dBc min.
Spurious	-50dBc max.
Pulse Input	TTL. High=Beam-ON, Low=Beam-OFF, 50Ω Input. BNC Female on Front Panel
Pulse Width	1-50uSec
Rise/Fall time	100nSec
PRF	0-2KHz
Duty Cycle	0-1%
Pulse Droop	0.1dB @ 5uSec pulse max. 0.5dB @ 50uSec pulse max.
RF Input/Sample Connectors	Type N Female On Rear Panel
RF Output Connector	7/16" Female On Rear Panel
Prime Power	120/208VAC +/-10%, 50/60 Hz, Three Phase, 5 wires on the Rear Panel
Consumptions	4.0 KVA max.

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Parameter	Specification
<u>Mechanical</u>	
Configuration	Racks mounts 19"W x 26.13"D x 14"H RF-DWR 19"W x 26.13"D x 10.5"H PS-DWR
Weight	210 Lbs
Cooling System	Air cooled: forced Air Front to Rear, self contained
Shock	MIL-STD-810F, method 516.2
Vibration	MIL-STD-810F, method 514.2
<u>Environmental</u>	
Temperature	0° to 40° C
Non-operating Temp	0° to 60°C
Humidity	95% without condensation
Altitude	5,000 feet



Features [Build-in]

- High Voltage power supplies Over/Under Voltage & Over Currents Protection
- RS 232 & Ethernet Remote Control.
- RF Input / Output Connectors on the Rear Panel.
- Standby/RF_ON, Elapsed Time Metering in hours.
- Filament/Beam Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

OPTIONS

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|-----|--|
| 001 | VSWR Protection against output mismatch. |
| 002 | Alternate Prime Power (specify at time of order). |
| 003 | USB or RS422 Remote Control. |
| 004 | Forward RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel. |
| 005 | Reflected RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel. |
| 006 | RF Input/Output Connectors on the Rear Panel [Standard], (Specify front or rear at time of order). |
| 007 | Internal Systems Diagnostics. |
| 008 | Filament/Beam Elapsed Time Metering in hours. |
| 009 | RF Safety Interlock, type BNC Connector. |
| 010 | Forward/Reflected Power Indication simultaneously on Front Panel display. |

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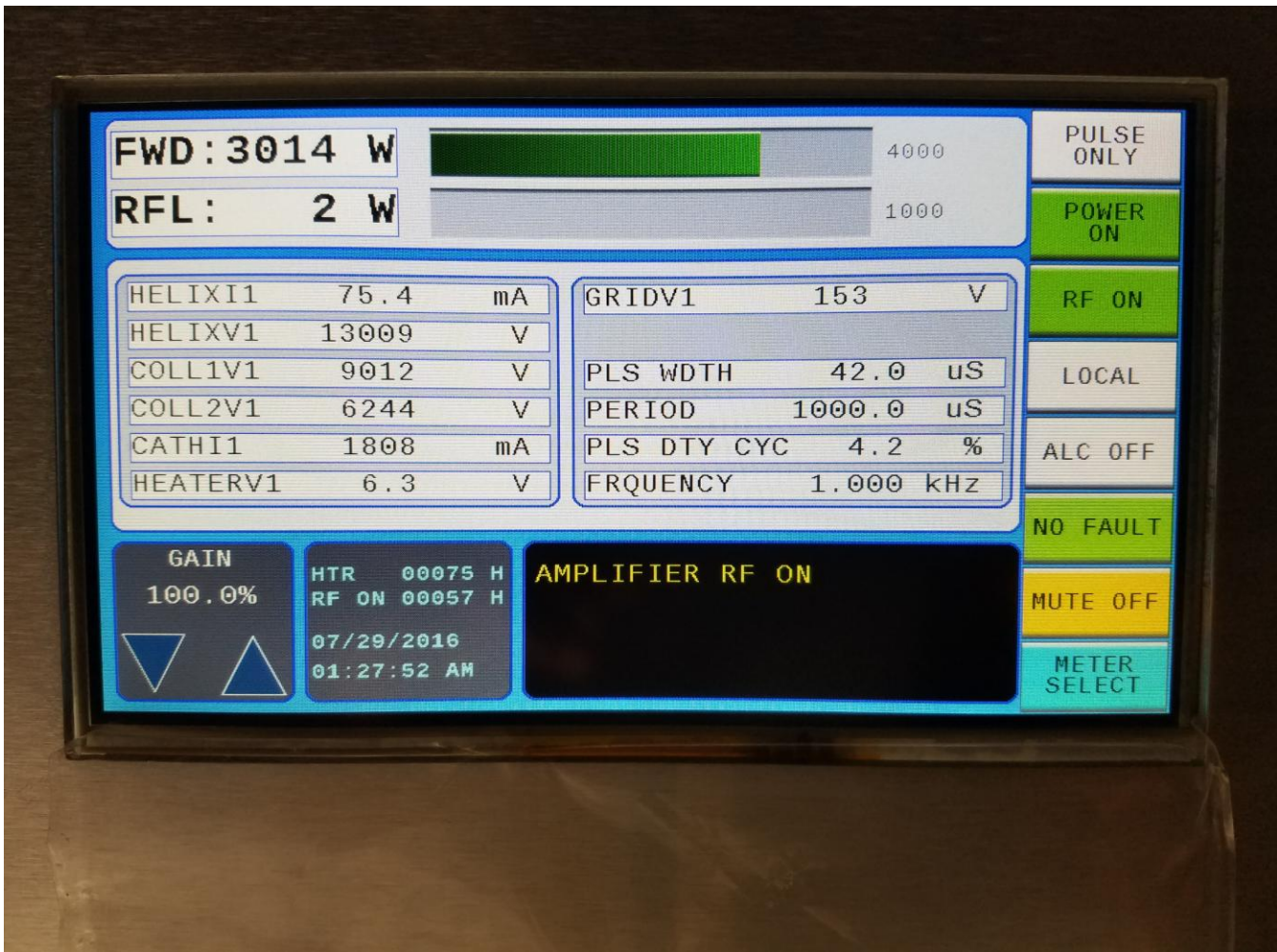


Figure 1. Typical Pulse Amplifier display showing status controls and metering

Distributed by

Reliant EMC LLC

3311 Lewis Ave
Signal Hill, CA 90755
Tel.:(408)9165750

E-Mail: contact@reliantemc.com
Web:www.reliantemc.com

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