PTL-12.5kW 902-928 MHZ SOLID-STATE HIGH-POWER MICROWAVE GENERATOR



Key Features

- Key Features/Benefits
- Generator is controlled with utilizing an easy to use, Windows™ based software package allowing control of:
 - Frequency (902-928 MHz)
 - Average power settings
 - Plasma Start mode, more easily ignites plasma processes
 - High power frequency sweeping menu enabling electronic stirring within customer's applicator
 - Graphical display comparable to a vector network analyzer (VNA) showing best frequency selection based on load measurements
 - Built in Forward and Reflected power measurement when not using external high-power isolator
- Frequency and phase coherent capable between multiple generators
- Long Life, highly reliable construction
- WR975 Waveguide output (external circulator required for applications exceeding reflected power specifications)

Frequency Range

- 902-928 MHz
- Frequency Step Size: 100 kHz

Operating Modes

Fixed, single frequency

Control System

- · Windows-based interactive control software
- External E-Stop
- Local or remote operation
- Ethernet remote control
- PLC-type hardware control interface with 24VDC and 20ma current loop inputs and outputs
- · Arc detection emergency stop inputs

Microwave Power Output

Model	Max Nominal
	Power
PTL-12.5W9-PREHU-0	12.5 KW

- Power set resolution input values: 1 watt
- · Power Amplifiers: Rugged LDMOS transistors
- Comprised of Qty 6, 2.5 kW modular power blades





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- Integrated RF output timer
- Power measurement indicators: Forward & Reflected
- Maximum Reverse Power Handling: 3,000 W absolute

Software Highlights

- Point-Click power and frequency setting across the band
- Forward/Reflected power and return loss indicators
- Best frequency selection based on load measurements
- Variable power over frequency sweep creation tool
- Programmable initial pulse for applications such as gas / plasma ignite

Power Supply

- AC mains: 380 or 480 VAC three phase delta 50/60 Hz configurable
- 50-volt switch mode power supply
- Air Cooled

Dimensions and Weight:

- 45 in (115 cm) High x 38 in (97 cm) Deep x 42 in (107 cm) Wide
- Weight: 600 lb (272 kg)

Facility Requirements:

Input Water Flow Min:
9.0 GPM (34.0 LPM)
Input Water Temperature:
59°F - 68°F (15°C - 20°C)

Input Water Pressure: 60 Max PSI (2.5 Min–4.0 Max atm)

Environmentally Controlled:

Ambient Room: 59°F - 77°F (15°C - 25°C)

Relative Humidity: < 95%Conditions must be non-condensing

Water Hook Up: 1 in OD NPT Threaded

Heat Load: ~50K BTU/hr (14.7 kW) @ Full Power

These are Preliminary Specification's. The information contained herein is subject to change without notice.



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