



WAVE PIA

RFEM-WPG24S25500

RF Energy Master

Description

The RF Energy Master RFEM-WPG24S25500 is a 2.4~2.5GHz, 400 W, fully integrated RF development system. The RF Energy Master system can control frequency, power, Phase. The integrated high accuracy measurement system monitors and logs all critical parameters. Fault detection and protection prevent damage to the system.

The RF Energy Master uses, as a core, WPG24S25500 RF Generator and provides all required support components needed to run the modules, enabling plug-and-play operation.



Key Components include

- RF Generator WPG24S25500
- Cooling system (Heat-Sink & FAN)
- Power supply unit
- PC communications interface
- Front panel LCD (For Control)
- Control software

Application

- Plasma Lighting System
- RF Heating and Drying
- Solid state Microwave OVEN
- Semiconductor Equipment
- Bio & Health Sciences

RF Energy Master Specification

Parameter	Specification	
Operating Frequency	2400 - 2500 MHz	
CW Output Power & Control	▪ Typical 56dBm (400W) ▪ 100 - 400W	
Technology	▪ Fully Solid-State ▪ WAVEPIA High Power GaN PLL	
Power Supply	100 - 240 VAC	
Power Efficiency (RF Generator)	≥ 55%	
Control & Monitoring	▪ PC GUI ▪ 4.7" Touch Panel	
Data Port	▪ USB Mini B Type ▪ UART	
Cooling	Forced-Air	
Size & Weight	▪ 285 x 300 x110 ▪ 6.9g	
Function	<ul style="list-style-type: none"> ▪ Status monitoring - Forward Power - Reverse Power - Operating Temperature 	<ul style="list-style-type: none"> ▪ Operating Function - VSWR Tracking - Soft Start



WAVE PIA

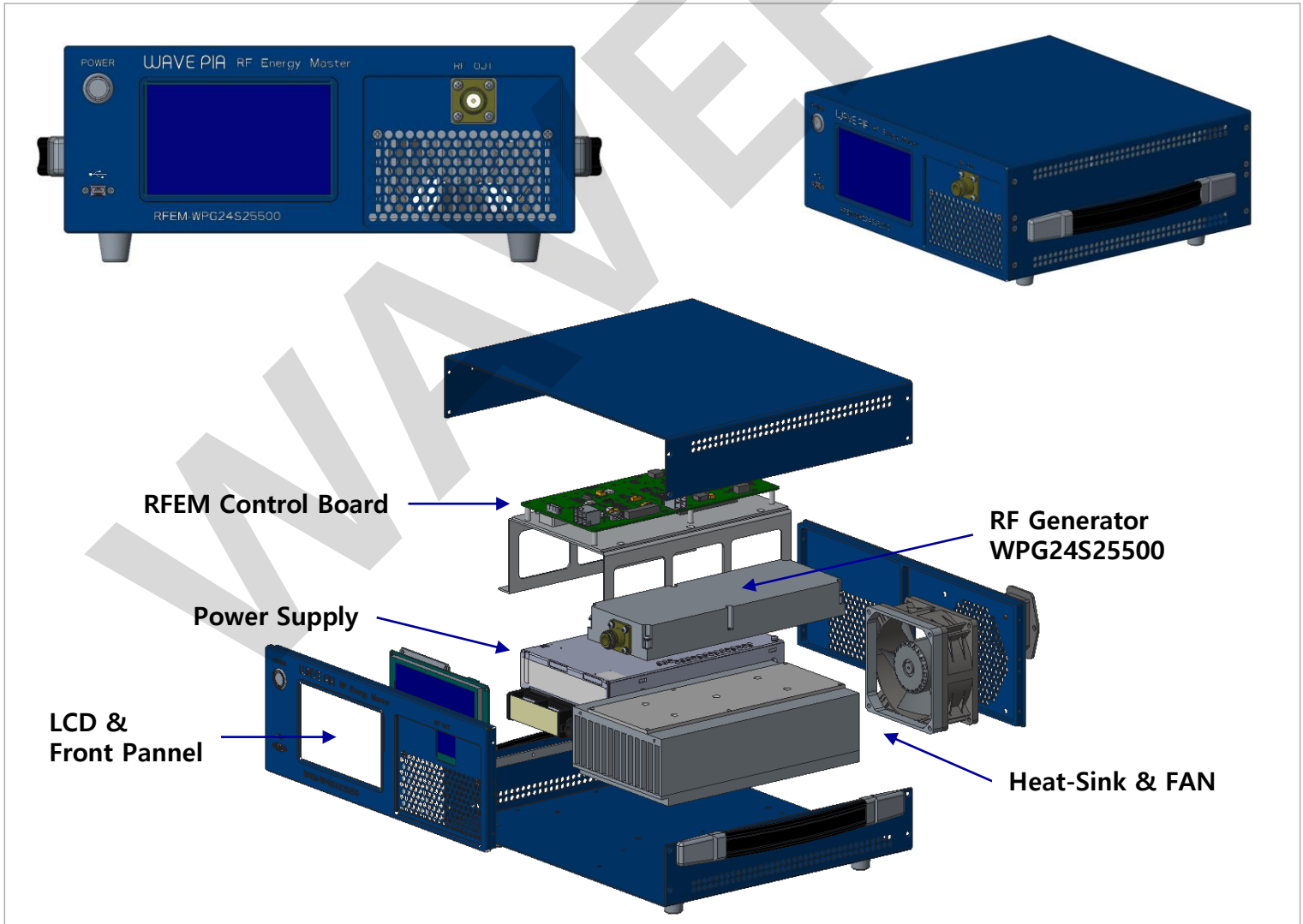
RFEM-WPG24S25500

RF Energy Master

Front Panel LCD Control & PC GUI Control

Front Panel LCD				PC GUI	
HOME	MONITOR	LOG	SET		
START	FREQ. [MHz]	TEMP [°C]	ALARM		
	2450.0	25	Connection ● PLL Lock ● FWD PWR ● RVS PWR ● Temperature ● DC Voltage ● DC Current ● Check & RESET		
STOP	POWER [W]	Timer	RESET		
	250	00:00			
SLEEP // READY // RUN			00:00		

Dimensions





RFEM-WPG24S25500

WAVE PIA

RF Energy Master

Dimensions

