

RF Power Generator+Matching Box 2 in 1 Combo



DX-RFM-13003 Combo (13.56MHz,300W)



DX-RFM-40006 Combo (40.68MHz,600W)

Product Overview

The DX-RFM-13/27/40XXX series combo unit integrates RF Power Generator and Matching Box into one case with a compact structure, small size, and easy installation. With a stable and reliable signal source and power amplifier control module, the incident and reflected power can be accurately measured, and the output power can be precisely controlled. It is widely used in applications such as vacuum plasma generators and thin film deposition.

Product Features

- **RF Power Generator+Matching Box in one case, compact structure, easy ship and install**
- **Full digital process, matching with high precision and in short time**
- **Large output power margin, capable of long-term stable operation**
- **Precise measurement for output power, reflected power and load impedance**
- **Support automatic gain control (AGC), output power accurate control**
- **Supports local control, IO control and remote control with RS485 and RJ45 ports**
- **Support continuously adjust output power from the minimum to the maximum rate with advanced power amplifier technology**
- **Support arc and standing wave protection, quick respond to protect equipment safety in case of abnormalities**
- **Support overload, overcurrent and overheat protection**

Tech Parameters

Item		Tech Parameters	
		300W	600W
Mains		Single Phase 220 V AC ±10 %, 50Hz/60Hz	
RF Output	Output Freq	13.56MHz/27.12MHz/40.68MHz for option	
	Output Power Range	5W-300W	10W-600W
	Rated Power	300W	600W
	Max Reflected Power	60W	120W
	Efficiency	≥60% (Z=50Ω, Rated Output)	
	Harmonic	<-50dBc	
	Spurious	<-50dBc	
	Power Stability	1.0% of set point or 0.1% of full rated power, whichever is greater	
Protection	DC source over voltage	--	Auto shutdown when DC voltage exceed limit
	DC source over current	--	Auto shutdown when DC current exceed limit
	DC source over heating	--	Auto shutdown when DC temperature exceed limit
	Amplifier overheating	Auto shutdown when Amplifier overheating	
	Reflected power exceeds limit	Limit output power when thereflected power exceeds the set threshold	
	External Lock	auto shut down when external lock fails	
	Arc Protection	auto shut down when arc detected	
Cooling medium		Air	
Dimension	DxWxH (mm)	435*483*132	500*483*132
Matching performance	Reflected power	<1%	
	Matching method	manual/automatic	
	Matching time	<2s	

Order Guide (Combo model)

Model NO.	Frequency	Power
DX-RFM-13003	13.56 MHz	300W
DX-RFM-13006		600W
DX-RFM-27003	27.12MHz	300W
DX-RFM-27006		600W
DX-RFM-40003	40.68MHz	300W
DX-RFM-40006		600W

Applications



Semiconductor

Wafer Cleaning
Film Deposition
PVD/PECVD/ALD
Magnetron Sputtering
Ion Beam Source
Ion Etching
...

Industrial

LED
Solar Photovoltaic
Crystalline Silicon Coating
Wear-protection layer
...

Medical

Plasma Disinfection
Cancer Treatment
MRI
RF Cosmetology
...



Dexin Digital Technology Corp. Ltd.

No.10 & No.12, Wuxing 4th Road, Wuhou District, Chengdu, 610045 China
Tel:+86 -28 -85550524 Fax:+86 -28 -85585255 Email: info@dsvb.com