

13.56/27.12MHz RF Generator (600W – 1.5kW Series)



DX-RFS-13010 (13.56MHz, 1kW)



Image: DX- RFS-13015 (13.56 MHz, 1.5kW)

Product Overview

Dexin high-performance RF generators feature a high-performance amplifier circuit, high-precision VI detection, and fully digital high-speed power control. It provides real-time display of output power, reflected power, and load impedance, with its control circuit enabling rapid dynamic power adjustment to maintain stable output even under load variations. The system supports continuous and pulse output with phase synchronization capabilities, along with rapid arc detection and suppression, effectively protecting both the load and the power supply itself. It finds wide applications in semiconductors, photovoltaics, display panels, plasma technology research, and other related fields.

Product Features

- **Support advanced high-efficiency and high stability RF power amplifier technology**
- **Support high stability and reliability with full digital process**
- **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 EtherCat**
- **Support continuously adjust output power from the minimum to the maximum with advanced power amplifier technology**
- **Support arc protection, quick detection and intelligent extinction**
- **Support overload, overcurrent and overheat protection**

Tech Parameters

Items	Tech Parameters		
	DX-RFS-13006/DX-RFS-27006	DX-RFS-13010/DX-RFS-27010	DX-RFS-13015/DX-RFS-27015
Mains	AC 220V±10% 50Hz / 60Hz		
Output Freq	13.56MHz / 27.12MHz as per order		
Frequency stability	±0.005 %		
Rated power	600W	1kW	1.5kW
Output power range	10W- 600W	15 W- 1kW	20W- 1.5kW
Max reflected power	120 W	200 W	300 W
RF output connector	N- type Female or as ordered		
IO connector	Analog (DB-25 Female)		
Communication	RS485 (DB-9 Female), EtherCat		
Tuning Time	< 5ms		
Power Stability	1% of set point or 0.1% of full rated power, whichever is greater		
Output Mode	CW/ Pulsing (as per order)		
Pulsing frequency	50Hz - 30kHz		
Duty cycle	1% - 99 % (Minimum ON/ OFF time: 12us)		
Harmonic	<-50 dBc		
Stray	<-50 dBc		
Efficiency	≥70% (Z= 50Ω , Rated output)		
Control	LCD+ Knob		
Phase sync (CEX)	Support, Optional as order		
Protection	Protection for over voltage, over current, over temperature, reflected power exceeding limit, external lock, and arc detection		
Cooling medium	Air		
Ambient Temp.	+ 5℃ - + 40℃		
Operating humidity	5% - 70%		
Dimensions(D*W*Hmm)	450 * 483 * 88		



Semiconductor

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

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

Medical

Plasma Disinfection
Cancer Treatment
MRI
RF Cosmetology
...

