URG300 RF Generator

UNIRFTECH

URG300 SEPCIFICATION

1.Physical Specification

Item	Description
Size	241(W) x 420(L) x 132(H);half rack size
Weight	10kg
Rack Mount Feature	19” rack
RF Output Connector	N Female
AC Power Input	ID-1022-S (one phase noise filter type)
Chassis(EMI) Ground	4Ø Standoff
User Port Connector	25-Pin D-sub, Female
RS-232	9-Pin D-sub, Female
Cooling	Forced Air

Specification

2. Electrical Specification

Item	Description
Line Voltage	198 to 229Vac(nominal 220V ±10%),3Ø no neutral connetion
Line Frequency	47 to 63Hz(50/60Hz±5%)
Line Current	About 3.5~4A,typical(at full rated RF output Power)
Overcurrent Protection	About4.5~5A Circuit breaker on rear panel
Power Consumption	About 600VA nominal at full rated output
Power Factor	PFC?
Full Rated Output Power	300W(Min) into a 50Ohm,non-reactive load
Output Power Range	3 to 300W
Frequency	13.56Mhz, ±0.1%
Regulation	±1% of setpoint or 2W(Whichever is greater) into a 50 Ohm load
Power Repeatability	±0.5% of setpoints or 2W(Whichever is greater) into a 50 Ohm load

Specification

Item	Description
Response Time	<150ms for setpoints(rise/fall time from RF ON /OFF)
Reflected Power Limit	45W
Harmonics	>50dBc
Spurious Emission	>50dBc
Transient Response	Less than 0.1% change in output Power for a 10% change In the ac line voltage

3.Environmental Specification

Item	Description
Temperature	+5℃ to +30℃(+41°F to +86°F) inlet temperature

Specification

4.User port connector & Status Indicator

- A.User control 25-pin

NO	Signal Name	Signal Type	Remark
1	Setpoint Status	Digital Output	
2	FWD PWR Monitor	Analog Output	
3	REFL PWR Monitor	Analog Output	
4	RF PWR ON/OFF	Digital Input	
5	Setpoint	Analog Input	
6	+24VDC	Reference Voltage	
7	RF STATUS	Digital Output	
8	RESERVED	Input	
9	OVERTEMP	Digital Output	
10	INTERLOCK	Input	