

## **Bdiscom Srl Milan ( I )**

Your experienced partner  
for Plasma power supplies

# **BDS HF 200 - 300 - 750 Black Box Series**



New generation of very  
price competitive  
and High efficiency  
200, 300 and 750 Watt  
13.56 MHz RF generators

# BDS HF 200 - 300 - 750 Black Box Series

BDISCOM introduce a new generation of low-medium power RF generators intended to satisfy the needs of laboratory grade and small low pressure industrial plasma systems.

- Model **BDS.HF 200-300-750.BB**, black box style, only with analog 0-10 VDC port.

The low-medium power Black Box series is composed by one unit of 200, 300 or 750 W @ 13.56 MHz output power in black box configuration with analog user port only, 0-10 VDC A/D Interface. The main 230 VAC has given by an external power supply provided together with the generator.

- Common specifications on **BDS HF Black Box ( BB ) generators**:

The BDS HF series is a class E circuit with 85-90% typical efficiency.

The output power is modulated by means of a PWM circuit acting on the DC bus.

## BDS.HF 200-300-750.BB Black Box specifications:

	<b>BDS.HF200.BB</b>	<b>BDS.HF300.BB</b>	<b>BDS.HF750.BB</b>
Dimensions	270 x 70 x 155 [mm]		132.5 x 269 x 410 [mm]
Weight	About 3.5 kg		
Power requirements	220VAC to 48 VDC Ext P.S		220VAC
Operating frequency	13.56 MHz $\pm$ 0.005 % quartz controlled		
Output power on 50 Ohm load	From 4 to 200 W	From 10 to 300 W	From 10 to 750 W
Maximum reflected power	20 %		
Harmonic content	-40 dB below fundamental		
Power detector	Forward and reverse power, linear scale 3% accuracy		
Power setpoint signal	20 W/V, linear	30 W/V, linear	100 W/V, linear
Incident power feedback	20 W/V, linear	30 W/V, linear	100 W/V, linear
Reverse power feedback	20 W/V, linear	30 W/V, linear	100 W/V, linear
RF on command	5 V or 24 V jumper selectable		
Alarm output	Open collector, max 50 mA		
Protection circuits	Excess reverse power, over temperature PA (Power Amplifier) overvoltage, PA over current		
RF Output connector	BNC		N female
User port connector	D-Type 15 pin, female		
Operating temperature	From 10 to 40°C , No condensation or icing		
Cooling	Forced air with 60mm fan		

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