

# 100 W 27.120 MHz POWER DRIVER mod. 332-2B

## 1 - DESCRIPTION

The 100 W Power Generator mod. 332-2B is a compact solid state Power Source dedicated to control laser crystal switch.

The Power Generator can be modulated with TTL as well as analog voltage.

The unit is air cooled with automatic fan over 50C° (internal temperature).

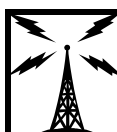
Front led indicate the operating condition of the unit.

An internal RF Double Coupler make it possible to monitor on two BNC female connectors the forward and the reflected RF Output Power.

The unit is protected against power mismatch on the N female RF Power Output connector.

The Power Source can be modulated at high speed in ON/OFF mode by means a TTL modulation input.

The unit require a single 24 Vdc 7 A supply.



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TITOLO/TITLE

100 W 27.120 MHz POWER DRIVER mod. 332-2B



DISEGNI E DOCUMENTI DI PROPRIETA' DI  
**ELRAD** srl.  
DIFFUSIONE E RIPRODUZIONE VIETATA  
A TERMINI DI LEGGE.

CODICE/CODE

332ED04B.PUB

PREPARED A. Benedetti

DATA/DATE

REV.

PAG./PAGE

APPROVED I. Marini

02/06


B

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### 3 - TECHNICAL CHARACTERISTICS

<b>Output frequency</b>	<b>27.120 MHz (crystal controlled)</b>
<b>Output power</b>	<b>100 W CW RMS (90 W min.)</b>
<b>Output impedance</b>	<b>50 Ohm</b>
<b>Output connector</b>	<b>N Female</b>
<b>Output forward monitor</b>	<b>BNC female - 40 dB</b>
<b>Output reflected monitor</b>	<b>BNC female - 40 dB</b>
<b>Supply</b>	<b>23-25 Vdc 7 A max</b>
<b>Cooling</b>	<b>Air with automatic fan</b>
<b>TTL modulation</b>	<b>0.3 uSec 100 W/0.5 W (TTL low for 0 RF power)</b>
<b>Analog power control</b>	<b>0-5 V (5 V for max RF power 1 Kohm)</b>
<b>Operating temperature</b>	<b>0 - 50C°</b>
<b>Dimensions</b>	<b>170 x 150 x 210 mm. (over all)</b>



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INTERFACE CONNECTOR

AUTOMATIC COOLIN FAN



SUPPLY CONNECTOR

ON

TTL INH

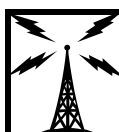
TEMP  
ALARM  
(INT/EXT)

REFLECTED POWER  
ALARM

FORWARD POWER  
MONITOR

REFLECTED  
POWER MONITOR

RF POWER OUT



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### 3 - CONNECTIONS

#### 9 PIN D MALE

#### SUPPLY INPUT

Pin 1-2-6-7

0 Vcc common ground

Pin 4-5-8-9

+ 24 Vcc supply


**Note: external 10 A fuse required on positive voltage (+ 24)**

#### 25 PIN D FEMALE

#### CONTROL CONNECTOR

Pin 5	TTL modulation	TTL low (0) = No RF
Pin 9	External crystal temp. alarm input	Open = alarm
Pin 10	Summarized alarm out	Open collector low = OK
Pin 11	Ext crystal temp. alarm out	Open collector low = OK
Pin 12	Reflected power alarm out	Open collector low = alarm
Pin 14	Analog modulation input	0 - 5 V (5 V = 100 W)
Pin 25	TTL inhibit input	TTL low (0) unit shut-off
Pin 16-22	I/O common ground	



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