

Capacitor Charging Power Supply

ECAPACITAS-3kW5

Advantages

- 3500W in 270x135x155mm³ OEM package
- Power Factor Correction
- CE Marked
- EMI EN55011
- Low leakage current
- High efficiency
- Remote output programming



Description

The ECAPACITAS-3kW5 is a robust power supply series target to charge energy storing capacitors. It is a compact, easy to operate and reliable power supply customized to deliver positive output voltages up to 2000V. This power supply is designed to meet low RF noise and high efficiency requirements, both for laboratory or industrial operation.

Specifications

INPUT

Voltage	190 to 260 V _{AC} , 1PH, 50/60 Hz
Current	15 @ 230V _{AC}
Power factor	>0.98

OUTPUT

Voltage	1000V, 2000V or 4000V
Power	3500W at V _{out} ≈max
Current	4A (average)
Polarity	Positive
Efficiency	> 90% at full power
Regulation	0.2% (at V _{max})

PROTECTIONS

Over temperature	
Short-circuit	
Over voltage	
Open circuit	

REGULATIONS

	CE Marked
	EN55011
Isolation	4000V _{AC}
Leakage current	< 500μA

CONNECTIONS

HV	Flying leads
Control	DSUB-15F connector
Power	Flying leads

ENVIRONMENT

Operation temp	10°C – 40°C
Storage	- 20°C – 60°C
Humidity, max	90% non-condensing
Cooling	Forced air (fan included)

LAYOUT

Size	270x135x155mm ³
Weight	3kg

STORED ENERGY

50mJ

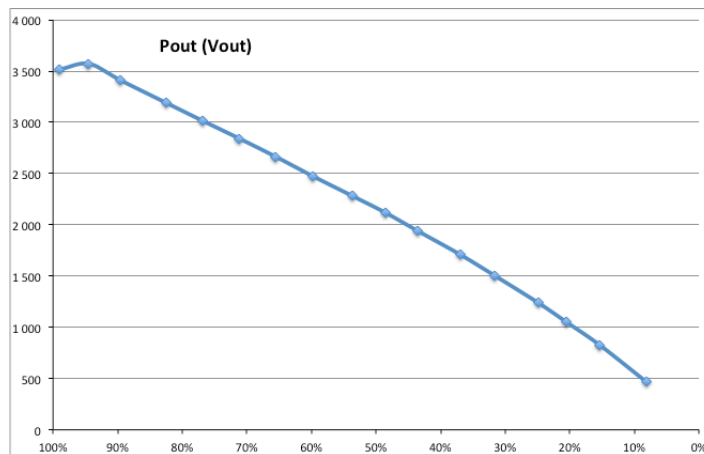
Connector PIN-OUT

1	INHIBIT	8	V _{OUT} Indicator
2	HV ON Indicator	9,11	+15Vdc Out
3	OVER HEAT Indicator	10	+5Vdc Out
4	FAULT Indicator	12	READY Indicator
5	PROGRAM VOLTAGE	13	END OF CHARGE Indicator
6	OVERVOLTAGE Indicator	14,15	GND
7	n/c		

Order reference:

ECAPACITAS-3kW5-xxxx, where xxxx is the V_{out} max (e.g. 500, 1000, 1500, 2000).

OUTPUT Power vs Voltage



Outline drawings

