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

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>190 to 260 VAC, 1PH, 50/60 Hz</td>
</tr>
<tr>
<td>Current</td>
<td>15 @ 230VAC</td>
</tr>
<tr>
<td>Power factor</td>
<td>&gt;0.98</td>
</tr>
<tr>
<td>Voltage</td>
<td>1000V, 2000V or 4000V</td>
</tr>
<tr>
<td>Power</td>
<td>3500W at Vout= max</td>
</tr>
<tr>
<td>Current</td>
<td>4A (average)</td>
</tr>
<tr>
<td>Polarity</td>
<td>Positive</td>
</tr>
<tr>
<td>Efficiency</td>
<td>&gt;90% at full power</td>
</tr>
<tr>
<td>Regulation</td>
<td>0.2% (at Vmax)</td>
</tr>
</tbody>
</table>

PROTECTIONS

- Over temperature
- Short-circuit
- Over voltage
- Open circuit

REGULATIONS

- CE Marked
- EN55011

ENVIRONMENT

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

CONNECTIONS

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

LAYOUT

- Size: 270x135x155mm³
- Weight: 3kg
- STORED ENERGY: 50mJ

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Connector PIN-OUT

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

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

**OUTPUT Power vs Voltage**

![Graph showing output power vs voltage](image)

Outline drawings

![Outline drawings](image)