

CCHP 3 Ø Capacitor Charging Power Supply



The CCHP capacitor charging power supplies utilize the latest innovations in power electronics to deliver clean and efficient energy for pulsed power applications. A high power resonant inverter ensures reliable operation in harsh environments and operating conditions. The CCHP power supply can drive traditional pulse forming networks and reservoir partial discharge circuits.

The CCHP is the first commercially available 3 Ø capacitor charger designed as a low cost module for high volume OEM use. Available in 208VAC and 400VAC input voltages the power supply can be used worldwide in medical and industrial applications.

We also offer single phase versions of this power supply. Please visit our website for more information.



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ADVANTAGES

- **3500j/sec. or 6000J/sec. Outputs**
- **Output Voltages to 4kV**
- **200 to 240VAC, 3 Ø Input or**
- **380 to 480VAC, 3 Ø Input**
- **24V, 3amp Auxiliary Output**
- **Compact Reliable Design**
- **Universally Compatible Interface**

APPLICATIONS

- **Flashlamp Pumped Lasers**
- **Excimer Lasers**
- **Pulsed UV Applications**
- **High Voltage Pulsed Applications**

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Specifications

Input

Voltage: 200 to 240 VAC, $\pm 10\%$, 3Ø 50/60Hz or
380 to 480 VAC, $\pm 10\%$, 3Ø 50/60Hz (set at factory)

Current: CCHP-3500: 13.7A/Ø, 200V 7.2A/Ø @ 380V
CCHP-6000: 23.5A/Ø, 200V 11,6A/Ø @ 380V

Power Factor: PF=.85

Output

Power: CCHP-3500: 3500j/sec. avg.
CCHP-6000: 6000j/sec. avg.

Output Voltage: Configurable from 250V to 4kV

Output Current: $2 * P_{outmax}/V_{outmax}$

Polarity: Positive or Negative (set at factory)

Efficiency: $>85\%$ at full output

Regulation: $>0.5\%$ @ 100Hz

Interface

Connector: 15 Pin "D" Sub Female

Voltage Program: 0 to 10 V for 0 to Max Voltage

Voltage Monitor: 0 to 10 V for 0 to Max Voltage

Inhibit/Reset **Note:** Interface is compatible with CCPF interface or it
End of Charge Indication can be modified to work with all popular analog inter-
Temperature Fault face configurations

Over Voltage Indication

Environment

Operating Temp: 0 to 40° C

Storage: -20 to 85°C

Humidity: 0 to 90% non-condensing

Cooling: Forced air

Dimensions: 17.3 inch (439mm) X 16.6 (422mm) X 3.7 (94mm)

Regulatory

UL 60950 Safety

CISPR 11 Conducted and Radiated Emissions

IEC 61000 Immunity