DC SPUTTERING POWER SUPPLY WITH ACTIVE ARC SUPPRESSION

CPW2870B15 36kW - 440/460/480VAC

DESCRIPTION

In the 1990s, CPI Canada pioneered reliability using Resonant Power Conversion Technology for high power processing. This method offers unique advantages in sputtering systems in the areas of wide load range, reliability (using an inherently short-circuit proof, rugged power chain), and wide control range (from < 1% to full power).

With proven reliability, CPI has continued to evolve this technology into higher powers with 36 kW available in an 8.75" high chassis. When it comes to Watts/inch³ (size), Watts/lbs (weight), Watts/\$ (price), and proven field reliability, CPI is unmatched in the industry.



SPECIFICATIONS

Input power requirements: 396V - 528VAC

at 61 amps max 50/60Hz, 4 wire 3 phase + gnd

Efficiency: > 90%

Output power: 36kW

Front panel Monitors o/p voltage, Digital Meter: power and current

User Interface: Remote Analog Sensing

Digital Interface: RS-232, 422, 485

Remote control via digital ports

Ignition voltage: 1000V

Output voltage: 575V max

Output Current: 120A max

Interlocks for safe operation

Protection:

Over temperature

Over-current, over-voltage, over-power

Input under voltage

Cooling: Forced air:

T ambient = 35° C max. at full power

Weight: approx. 115 lbs

Input/ Output Power terminals for easy installation.

Dimensions: 8.72" H x 26.2" DP - 19" rack mount

PRODUCT ADVANTAGES

Delivery time: Typically 4 to 6 weeks for un-forecasted units

JIT for scheduled production

Active Arc Suppression: Built in to act upon arcs within 400 nSec and suppress them

within 10 µSecs.

Highest output power in an 8.75" chassis: 36 kW over a wide process range

Wide load range: 575V & 120A covers many different processes running at different

powers, different materials and argon pressures. We can adjust load range

for specific customer requests!

Optional Interfaces: Others available upon request.

Product certification: IEC 60950, UL 60950, CSA 60950, CE

Product compliant: NEC, NFPA 79, SEMI-S2, SEMI-F47

Reliability designed in: Extensive worst-case analysis design reviews

Based on continuous duty cycle

Uses established technology with proven reliability record of > 300,000

hours MTBF.

Reliability built in and tested: E.S.S. (Environmental Stress Screening) on 100% production

• Random frequency vibration along 3 axis (20 grms)

• Rapid temperature change (25°C/min)

ISO 9001

OPTIONS

Higher Power Configurations: Can be configured with two more units to give 108 kW output power without any

changes to the units or the Host interfaces