

# 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/inch<sup>3</sup> (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  
Digital Meter: Monitors o/p voltage,  
power and current

User Interface: Remote Analog Sensing

Digital Interface: RS-232, 422, 485  
Remote control via digital ports

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

Ignition voltage: 1000V

Output voltage: 575V max

Output Current: 120A max

## 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 $\mu$ Secs.
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 <ul style="list-style-type: none"><li>• Random frequency vibration along 3 axis (20 grms)</li><li>• Rapid temperature change (25°C/ min)</li></ul>

## ISO 9001

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## 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
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