

# COMPACT SERIES DC SPUTTERING POWER SUPPLY WITH INTEGRATED ACTIVE ARC SUPPRESSION

## CPW2870B10-47 & STD Z 36kW – 460/480 VAC

### DESCRIPTION

In the 1980s, CPI Canada pioneered Resonant Power Conversion Technology for high power processing. This method offers unique advantages in sputtering systems in the areas of wide load range (without tap changing), reliability (using an inherently short-circuit proof, rugged power chain), and wide control range (from < 1% to full power).

CPI has continued to evolve this technology into higher powers with 36 kW now available in a 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:	414V - 528VAC at 58 amps max 50/60Hz, 4 wire 3 phase + gnd	Interlocks for safe operation
Efficiency:	> 90%	Protection: Over temperature Over-current, over-voltage, over-power Input undervoltage
Output power:	36kW	Cooling: Forced air: T ambient = 35°C max. at full power
Front panel Digital Meter:	Monitors o/p power, voltage and current	Weight: approx. 110 lbs
User Interface:	Remote Analog Sensing	Input/ Output Power connectors for easy installation.
Digital Interface:	RS-232, 422, 485 Remote control via digital ports	Dimensions: 8.75" H x 23.2" DP - 19" rack mount

	<b>B10</b>	<b>STD Z</b>
Ignition voltage:	1000V	1500V
Output voltage:	550V max	800V max
Output Current:	120A max	80A max

## 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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## PRODUCT ADVANTAGES

Delivery time:	Typically 2 to 4 weeks for unforecasted units JIT for scheduled production
Integrated Active Arc Suppression:	Built in to act upon arcs and extinguish them within 10 µsecs.
Highest output power in a 8.75” chassis:	36 kW over a wide process range
Wide load range:	STD Z = 800V max & 80A and Low Z = 550V & 120A to cover 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 950, UL 1950, CSA 950, CE
Product compliant:	NEC, NFPA 79, S2-93
Reliability designed in:	Extensive worst case analysis design reviews Based on continuous duty cycle Uses established technology with proven reliability record of >280,000 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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