

# GEN 2.5 SERIES DC SPUTTERING POWER SUPPLY

# CPW2870L5-01, M5-01, P5-01 6kW, 12kW, 24 kW 200/208 VAC

## DESCRIPTION

In the 1980s, CPI Canada pioneered Resonant Power Conversion Technology (Resmode) 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), highest efficiency with zero switching losses and wide control range (from < 1% to full power).

CPI has continued to evolve this technology into many different models. When it comes to Watts/lbs (weight), Watts/\$ (price), and proven field reliability, CPI is unmatched in the industry.



**6kW & 12kW – 200/208 VAC (shown)**

## SPECIFICATIONS

Input power requirements: 180 - 229 VAC  
50/60Hz, 4 wire  
3 phase + gnd

Efficiency: > 90%

Cooling: Forced air:  
T ambient = 45C max. at full power  
through

Input/ Output interlocks for safe operation

Protection:

- Over temperature
- Over-current, over-voltage, over-power
- Input undervoltage

Input/ Output Power connections are hard wired

cable strain reliefs.

## MODELS

	CPW2870L5-01	CPW2870M5-01	CPW2870P5-01
Power setting:	6kW/2.5kW/600W	12kW/6kW/3kW	24kW/12kW/6kW
Ignition voltage:	1500V	1500V	1500V
Output voltage:	1000V max	900V max	900V max
Output Current:	10A max	25A max	50A max
Weight (approx):	50 lbs	67 lbs	134 lbs (master & slave)
User Interface:	Remote analog control and sensing		

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## OPTIONS

Arc Suppression Device:	Can accommodate a 25A (or 50A) single arc suppression unit.
Arc Counter:	Reads output signal from Arc Suppression Device.

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## PRODUCT ADVANTAGES

Fast Delivery time:	Typically 2 to 4 weeks for unforecasted units JIT for scheduled production
Wide load range:	1000V & 10A, 900V & 25A, 900V & 50A to cover many different processes running at different powers, different materials and argon pressures without tap changes.
Product Complaint:	IEC 950, UL 1950, CSA 950 Designed to meet 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 >400,000 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>

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## ISO 9001