



**Low Profile**  
**SWITCHING REGULATED (to 720 watts)**  
**(Power Factor Correction and Universal Input)**  
**single output & wide adjust output**  
**AC-DC or DC-DC**

- Shipped Within 6 Days
- Five Year Warranty



**Don't forget these facts about Acopian....**

1. We ship within 3 Days (see our 3 Day Shipping Promise below).
2. Acopian power supplies last a *very long time*.
3. The Voltage Finder is the quickest way to find a power supply with the specs you need.
4. The Online System builder ([www.acopian.com/SystemBuilder](http://www.acopian.com/SystemBuilder)) is a convenient way to get your own custom Power System (and they ship within 9 Days).
5. You always talk to a real person when you call Acopian.
6. You can order your Acopian power supplies factory direct.
7. You can order your Acopian power supplies online.
8. All Acopian products are made in the USA.



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 Order Factory Direct     
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**STANDARD FEATURES**

- Universal input
- Power Factor Correction
- Constant voltage and constant current modes
- Voltage and current monitor terminals
- Voltage and current programming capabilities
- Short circuit and overload protection
- Thermal protection
- Low Profile
- No minimum load required
- Adjustable down to 0 volts ('Wide Adjust' models)
- Can be paralleled for increased current (option P)
- N+1 Redundancy (option N)
- Internal EMI Filter and RFI Shielding
- Pluggable connectors for input and control wiring
- Remote Sensing
- 'Vout OK' signal monitor
- 'Soft start' operation

**SPECIFICATIONS**

**Input Voltage:** 90-265 VAC, 49-420 Hz, single phase, or 110-350 Vdc.

208 VAC 3-phase is also available (see Options).

AC input (maximum): 8A (WL7 case), 12A (WL9 case)

DC input (maximum): 5.75A (WL7 case), 8.8A (WL9 case)

DC input may be connected without regard to polarity.

**Inrush current:** Cold start, (thermistor limiter) 33A peak @ 115 VAC (typical); 65A peak @ 230 VAC (typical).

**Startup Time:** 800 mS (typical).

**Input Undervoltage:** An input of less than 90 VAC will not damage power supply.

**Power Factor:** 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

**Regulation (in constant voltage mode):**

Line Regulation:  $\pm 0.05\%$

Load Regulation:  $\pm 0.05\%$

**Regulation, Ripple (in constant current mode):**

Line Regulation:  $\pm 0.2\%$  or 30 mA.

Load Regulation:  $\pm 0.5\%$  or 100 mA.

Current Ripple: 0.5% rms.

**Ambient Operating Temperature:** 0 to +71°C.

**Temperature Coefficient (after 30 minute warm-up):**

Voltage mode;  $\pm 0.02\%/^{\circ}\text{C}$  (typical).

Current mode;  $\pm 0.1\%/^{\circ}\text{C}$  (typical).

**Drift (voltage mode or current mode):**  $\pm 0.1\%$  (typical) over 8 hours, after 30 minute warmup.

**Storage Temperature:** -40 to +85°C.

**Holdup Time:** 20 mS minimum with full load.

**Transient Response:** 300  $\mu\text{S}$  to return to  $\pm 1\%$  of output setting. Maximum of  $\pm 3\%$  output excursion following a load step change from 50% to 100%.

**Efficiency:** See table, (typical, at 115 VAC, with full load.)

**Polarity:** Output is floating and may be used in either polarity.

**Remote Sensing:** Compensates up to 0.5 Vdc drop per output line (or within the limits of the output voltage adjustment range). (Wide Adjust models compensate up to 0.5 Vdc drop per output line.

**Output Adjustment:** Voltage and current output adjustments are located on the front. Output adjustment may also be controlled by using remotely located potentiometers.

**Output Programming (Wide Adjust models):** The output voltage and current may be programmed from 0 to full rating by means of control voltage inputs of 0 to +10Vdc (0 to +5Vdc for models with option "C5"). Voltage mode accuracy: 0.5%. Current mode accuracy: 3% for models with greater than 10 amps output current and 4% for models with less than 10 amps output current. Accuracy percentages do not apply below 5% of output rating.

**Voltage Monitor Terminal:** Permits remote monitoring of output voltage, stepped down by a ratio of 10:1 (for 3.3v to 90v models) or 100:1 (for 100v to 135v models). Accuracy is 0.5% of maximum rated output voltage.

**For models with 0-5v programming option "C5":** Permits remote monitoring of output voltage, stepped down by a ratio of 10:1 (for 3.3v to 45v models) or 100:1 (for 48v to 135v models). Accuracy is 0.5% of maximum rated output voltage.











