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**Data Sheet**

August 13, 2026

ACOPIAN

# ACOPIAN Y05LX7000

Acopian Y05LX7000 Low Profile Switching Power Supply 0 to 5 V 70 A The Acopian Y05LX7000 is a low-profile wide-adjust switching regulated AC-DC/DC-DC power supply providing 0 to 5 Vdc at up to 70 A in the WL9 case. It features universal AC/DC input, power factor correction, remote sense, analog programming, and forced-air cooling for OEM and rack power applications. The Acopian Y05LX7000 is a low-profile wide-adjust switching regulated AC-DC/DC-DC power supply providing 0 to 5 Vdc at up to 70 A in the WL9 case. It features universal AC/DC input, power factor correction, remote sense, analog programming, and forced-air cooling for OEM and rack power applications.



MODEL

**Acopian  
Y05LX7000**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**Y05LX7000**

LISTING

<https://aumictechlabs.com/products/y05lx7000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The ACOPIAN Y05LX7000 is a regulated DC power supply engineered for precision electronics testing, manufacturing, and research environments where stable, clean power delivery is essential. This USA-manufactured unit accepts wide-range AC or DC input and delivers adjustable 0–5 VDC output at up to 70 A maximum, with exceptional load and line regulation of  $\pm 0.05\%$  or 5 mV. Fast transient response, low ripple, and tight temperature stability make it suited for sensitive instrumentation and bench-level test applications. Technical Specifications Input: 90–265 VAC or 110–350 VDC; 60–400 Hz; power factor 0.99 typical at 115 VAC, 60 Hz, full load Output: 0–5 VDC

adjustable; 70 A maximum; 49 A rated at 40 °C and 71 °C Regulation:  $\pm 0.05\%$  or 5 mV (line and load);  $\pm 0.2\%$  or 30 mA (constant current, line);  $\pm 0.5\%$  or 100 mA (constant current, load) Ripple: 15 mV RMS, 50 mV P-P voltage; 0.5% RMS current Transient Response:  $\pm 1\%$  settling within 300  $\mu\text{s}$ ;  $\pm 3\%$  maximum excursion on 50–100% load step Temperature Coefficient:  $\pm 0.02\%$  /°C voltage mode,  $\pm 0.1\%$  /°C current mode, both typical post warm-up Drift:  $\pm 0.1\%$  typical over 8 hours Efficiency: 64% typical; startup 800 ms; holdup 20 ms minimum

**Key Features** Programmable output via 0–10 VDC or optional 0–5 VDC control inputs Output inhibit/enable control with contact closure or voltage logic (3–15 VDC disable) V-OK status signal (+3 to +5 VDC high window: –14% to +15% of nominal) UL60950, UL508, CE certified; ISO 9001 manufactured; TAA compliant Wide input range tolerates 90–265 VAC or 110–350 VDC with no damage below minimum

**Typical Applications** Precision semiconductor and component testing Laboratory bench power for low-voltage instrumentation Manufacturing test fixtures requiring regulated, stable output R&D environments demanding low ripple and tight regulation

**Compatibility & Integration** Programmable via standard analog control voltage; integrates into test stands and automated measurement systems through V-OK feedback and inhibit logic.

## Features & description

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From manufacturer datasheet

### Features

- Output 0 to 5 Vdc at 70 A (49 A at 71 C) • Universal input 90 to 265 Vac or 110 to 350 Vdc • Power factor correction typical 0.99 at 115 Vac full load • Remote sense compensates up to 0.5 V drop per line
- 0 to 10 V analog programming of voltage and current • Forced air cooled WL9 low profile case

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### Applications

- High current low voltage DC rails for test and burn-in • Programmable 0 to 5 V lab and ATE supplies • ParallelNplus 1 and battery float with option diodes • Chassis wall and DIN rail mounted OEM power

## Y05LX7000 Characteristics / Specifications

| PARAMETER                                    | VALUE                                                                  |
|----------------------------------------------|------------------------------------------------------------------------|
| Model                                        | Y05LX7000                                                              |
| Manufacturer                                 | Acopian                                                                |
| Instrument Type                              | Switching Regulated Power Supply                                       |
| Alias                                        | Y05LX7000; Acopian Y05LX7000                                           |
| Output voltage range                         | 0 to 5 Vdc                                                             |
| Output current at 40 C                       | 70 A                                                                   |
| Output current at 71 C                       | 49 A                                                                   |
| Case size                                    | WL9                                                                    |
| Ripple rms                                   | 15 mV                                                                  |
| Ripple peak to peak                          | 50 mV                                                                  |
| Efficiency typical                           | 64 percent                                                             |
| Input voltage AC                             | 90 to 265 Vac 49 to 420 Hz single phase                                |
| Input voltage DC                             | 110 to 350 Vdc                                                         |
| AC input maximum WL                          | 12 A                                                                   |
| DC input maximum WL                          | 8.8 A                                                                  |
| Power factor typical                         | 0.99 at 115 Vac 60 Hz full load                                        |
| Line regulation CV                           | plus or minus 0.05 percent or 5 mV                                     |
| Load regulation CV                           | plus or minus 0.05 percent or 5 mV                                     |
| Current ripple CC mode                       | 0.5 percent rms                                                        |
| Ambient operating temperature                | 0 to plus 71 C                                                         |
| Temperature coefficient voltage mode typical | plus or minus 0.02 percent perCHoldup time: 20 ms minimum at full load |
| Transient response                           | 3 ms to return to plus or minus 1 percent                              |
| Remote sense compensation                    | up to 0.5 V per output line                                            |
| Programming control voltage                  | 0 to plus 10 Vdc standard                                              |
| Programming option C                         | 0 to plus 5 Vdc                                                        |

| PARAMETER                   | VALUE                                                                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Case dimensions rough       | 1.7 × 6.4 × 11.9 in                                                                                                                                                                                          |
| Approximate weight          | 4 lb 13 oz                                                                                                                                                                                                   |
| Cooling                     | forced air two rear fans                                                                                                                                                                                     |
| Switching frequency typical | 110 kHz                                                                                                                                                                                                      |
| Dielectric input to output  | 4242 Vdc                                                                                                                                                                                                     |
| Warranty                    | five year Acopian Notes Specs from Acopian Y05LX7000 product page and Low Profile Wide Adjust Switching specifications (WL9). Confirm option suffixes (C5 D2 E E1 F H5 L4 R U) on the ordered configuration. |
| Operating temperature       | 0 to plus 71 C                                                                                                                                                                                               |

## General Specifications & Supplementary Characteristics

| PARAMETER                                    | VALUE                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature                        | 0 to plus 71 C                                                                                                                                                                                               |
| Operating Temperature                        | 0 to plus 71 C                                                                                                                                                                                               |
| Temperature coefficient voltage mode typical | plus or minus 0.02 percent perCHoldup time: 20 ms minimum at full load                                                                                                                                       |
| Transient response                           | 3 ms to return to plus or minus 1 percent                                                                                                                                                                    |
| Remote sense compensation                    | up to 0.5 V per output line                                                                                                                                                                                  |
| Programming control voltage                  | 0 to plus 10 Vdc standard                                                                                                                                                                                    |
| Programming option C                         | 0 to plus 5 Vdc                                                                                                                                                                                              |
| Case dimensions rough                        | 1.7 × 6.4 × 11.9 in                                                                                                                                                                                          |
| Approximate weight                           | 4 lb 13 oz                                                                                                                                                                                                   |
| Cooling                                      | forced air two rear fans                                                                                                                                                                                     |
| Switching frequency typical                  | 110 kHz                                                                                                                                                                                                      |
| Dielectric input to output                   | 4242 Vdc                                                                                                                                                                                                     |
| Warranty                                     | five year Acopian Notes Specs from Acopian Y05LX7000 product page and Low Profile Wide Adjust Switching specifications (WL9). Confirm option suffixes (C5 D2 E E1 F H5 L4 R U) on the ordered configuration. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                               |                                           |
|----------------------------------------------|-------------------------------------------|
| Technical Specifications                     |                                           |
| PARAMETER                                    | VALUE                                     |
| Model                                        | Y05LX7000                                 |
| Manufacturer                                 | Acopian                                   |
| Instrument Type                              | Switching Regulated Power Supply          |
| Alias                                        | Y05LX7000; Acopian Y05LX7000              |
| Output voltage range                         | 0 to 5 Vdc                                |
| Output current at 40 C                       | 70 A                                      |
| Output current at 71 C                       | 49 A                                      |
| Case size                                    | WL9                                       |
| Ripple rms                                   | 15 mV                                     |
| Ripple peak to peak                          | 50 mV                                     |
| Efficiency typical                           | 64 percent                                |
| Input voltage AC                             | 90 to 265 Vac 49 to 420 Hz single phase   |
| Input voltage DC                             | 110 to 350 Vdc                            |
| AC input maximum WL9                         | 12 A                                      |
| DC input maximum WL9                         | 8.8 A                                     |
| Power factor typical                         | 0.99 at 115 Vac 60 Hz full load           |
| Line regulation CV                           | plus or minus 0.05 percent or 5 mV        |
| Load regulation CV                           | plus or minus 0.05 percent or 5 mV        |
| Current ripple CC mode                       | 0.5 percent rms                           |
| Ambient operating temperature                | 0 to plus 71 C                            |
| Temperature coefficient voltage mode typical | plus or minus 0.02 percent per C          |
| Holdup time                                  | 20 ms minimum at full load                |
| Transient response                           | 3 ms to return to plus or minus 1 percent |
| Remote sense compensation                    | up to 0.5 V per output line               |
| Programming control voltage                  | 0 to plus 10 Vdc standard                 |

| PARAMETER                   | VALUE                    |
|-----------------------------|--------------------------|
| Programming option C5       | 0 to plus 5 Vdc          |
| Case dimensions rough       | 1.7 x 6.4 x 11.9 in      |
| Approximate weight          | 4 lb 13 oz               |
| Cooling                     | forced air two rear fans |
| Switching frequency typical | 110 kHz                  |
| Dielectric input to output  | 4242 Vdc                 |

### Specifications

| PARAMETER                                    | VALUE                                                                  |
|----------------------------------------------|------------------------------------------------------------------------|
| Model                                        | Y05LX7000                                                              |
| Manufacturer                                 | Acopian                                                                |
| Instrument Type                              | Switching Regulated Power Supply                                       |
| Alias                                        | Y05LX7000; Acopian Y05LX7000                                           |
| Output voltage range                         | 0 to 5 Vdc                                                             |
| Output current at 40 C                       | 70 A                                                                   |
| Output current at 71 C                       | 49 A                                                                   |
| Case size                                    | WL9                                                                    |
| Ripple rms                                   | 15 mV                                                                  |
| Ripple peak to peak                          | 50 mV                                                                  |
| Efficiency typical                           | 64 percent                                                             |
| Input voltage AC                             | 90 to 265 Vac 49 to 420 Hz single phase                                |
| Input voltage DC                             | 110 to 350 Vdc                                                         |
| AC input maximum WL9                         | 12 A                                                                   |
| DC input maximum WL9                         | 8.8 A                                                                  |
| Power factor typical                         | 0.99 at 115 Vac 60 Hz full load                                        |
| Line regulation CV                           | plus or minus 0.05 percent or 5 mV                                     |
| Load regulation CV                           | plus or minus 0.05 percent or 5 mV                                     |
| Current ripple CC mode                       | 0.5 percent rms                                                        |
| Ambient operating temperature                | 0 to plus 71 C                                                         |
| Temperature coefficient voltage mode typical | plus or minus 0.02 percent perCHoldup time: 20 ms minimum at full load |
| Transient response                           | 3 ms to return to plus or minus 1 percent                              |
| Remote sense compensation                    | up to 0.5 V per output line                                            |

| PARAMETER                   | VALUE                     |
|-----------------------------|---------------------------|
| Programming control voltage | 0 to plus 10 Vdc standard |
| Programming option C5       | 0 to plus 5 Vdc           |
| Case dimensions rough       | 1.7 x 6.4 x 11.9 in       |
| Approximate weight          | 4 lb 13 oz                |
| Cooling                     | forced air two rear fans  |
| Switching frequency typical | 110 kHz                   |
| Dielectric input to output  | 4242 Vdc                  |

Warranty: five year Acopian

Notes

Specs from Acopian Y05LX7000 product page and Low Profile Wide Adjust Switching specifications (WL9). Confirm option suffixes (C5 D2 E E1 F H5 L4 R U) on the ordered configuration.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.