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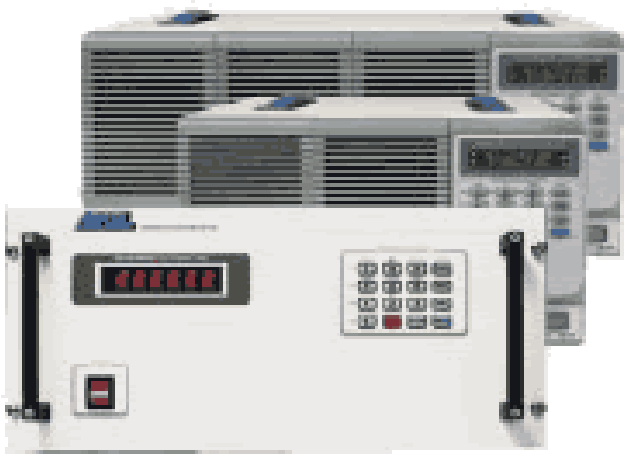
**Data Sheet**
August 13, 2026

AMREL

# Amrel PD80-7.5D Programmable DC Power Supply

Amrel PD80-7.5D Programmable DC Power Supply,Programmable DC power supply with 80V and 7.5A output capacity. Offers precise voltage and current regulation for electronic testing and development. Ideal for lab, production, and R&D environments requiring stable and adjustable power.



| | |
|---|---|
| MODEL<br>Amrel PD80-7.5D | CALIBRATION<br>Available on request |
| CONDITION<br>Used | STATUS<br>In stock |
| RFQ / SKU<br>PD80-7.5D | LISTING<br>https://aumictechlabs.com/products/pd80-7-5d-2/ |

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Amrel PD80-7.5D is a programmable linear DC power supply engineered for precision electronic testing, development, and production environments. Delivering 80V at 7.5A (600W), it combines ultra-low ripple and noise with fast transient response and intuitive front-panel control via LCD display. The unit operates in both constant voltage and constant current modes with automatic crossover, eliminating the need for external measurement instruments.Technical Specifications Output Voltage: 80V maximum Output Current: 7.5A maximum Power Capacity: 600W Ripple and Noise (PARD): 1–3 mVpp typical Load Regulation: 1 mV and 1 mA Transient Response Time: 50 µs Measurement Accuracy: 0.04% Programming/Readback Resolution: 16-bit design; 0.1 mA/0.5 mV resolution AC Input: 1-phase 120 VAC or 1-phase 240 VAC (user-selectable)

Form Factor: 19" rackmount readyKey Features Programmable output with four 20-step VLIST or ILIST profiles for automated sequencing Dwell time control: 10 ms to 1 minute per step; single or multiple cycle execution Protection: Over-voltage (OVP), over-current (OCP), and over-temperature (OTP) standard; under-voltage protection (UVP) available Remote sensing to compensate for line-drop measurement errors Closed-case digital calibration with electronic remote/local calibration capability Fan-speed control for acoustic noise reduction TTL function for output enable/disable; analog voltage input (0 to +10 Vdc) for external control Digital encoder and keypad interface with 4-digit LCD readback Optional polarity reversal and isolation output relaysStandard & Optional Interfaces Standard: RS-232 and IEEE 488.2 (GPIB/SCPI) Optional: Ethernet, USB, and RS-485 (master/slave paralleling) LabVIEW/LabWindows drivers availableTypical Applications Laboratory testing, production burn-in, R&D prototyping, and automated test sequences requiring stable, adjustable DC power with minimal noise and precise load regulation.

## Features & description

From manufacturer datasheet

### Features

• Dual independent 80 V / 7.5 A programmable outputs • Linear topology for ultra-low ripple and noise • CV CC and auto-crossover operation • GPIB and RS-232 SCPI remote control standard • 16-bit 4-digit voltage and current readback • Four 20-step VLIST or ILIST auto-sequencing profiles • OVP OCP OTP and remote shutdown interlock

### Applications

• Dual-rail bench and ATE DC bias for sensitive electronics • Parallel or series stacking for higher current or voltage • Automated VLIST/ILIST sequencing in production test • Low-PARD supply for analog RF and precision circuits

## PD8075D Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Model** | PD80-7.5D |
| **Manufacturer** | Amrel / American Reliance |
| **Instrument Type** | Dual Output Programmable DC Linear Power Supply |
| **Alias** | PD80-7.5D; Amrel PD 80-7.5D; PD80-7.5 dual |
| **Output channels** | 2 |
| **Voltage per channel** | 0 to 80 V |
| **Current per channel** | 0 to 7.5 A |
| **Power per channel** | 600 W |
| **Topology** | linear DC programmable supply |
| **Operating modes** | CV CC auto crossover |
| **Programming resolution design** | 16 bit |
| **Readback digits** | 4 digit voltage and current |
| **Worst case accuracy family** | 600 ppm class |
| **Voltage programming accuracy family 80 V models** | 0.02 percent + 24 mV typical table form |
| **Current programming accuracy family** | 0.03 percent + offset per model table |
| **Temperature coefficient CV** | 100 ppm perCTemperature coefficient CC: 200 ppm perCTransient response family: 50 us |
| **Ripple and noise PARD** | low mV peak to peak linear family |
| **AC input selection** | 1 ph 120 Vac or 1 ph 240 Vac |
| **Remote interfaces** | GPIB and RS-232 standard |
| **Command set** | SCPI |
| **Drivers** | LabVIEW and LabWindows |
| **Remote sense** | yes compensates line drop |
| **Sequencing** | four 20 step VLIST or ILIST profiles |
| **Protection** | OVP OCP OTP fault dry contact remote shutdown |

| PARAMETER | VALUE |
| --- | --- |
| **Series parallel** | supported for higherVorIFront panel: LCD digital encoder and keypad |
| **Calibration** | in rack closed case digital calibration |
| **Form factor** | rackmount ready PD chassis |
| **Related single output** | PD80-7.5 withoutDsuffix Notes Channel ratings from Amrel PD Series listings for PD80-7.5 (0–80 V, 0–7.5 A, 600 W) with D = dual outputs per Amrel naming. Accuracy/ripple rows follow PD Series datasheet family tables; confirm exact dual-channel wiring, AC input strap, and measured full-scale accuracy on the unit. |

# 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** | PD80-7.5D |
| **Manufacturer** | Amrel / American Reliance |
| **Instrument Type** | Dual Output Programmable DC Linear Power Supply |
| **Alias** | PD80-7.5D; Amrel PD 80-7.5D; PD80-7.5 dual |
| **Output channels** | 2 |
| **Voltage per channel** | 0 to 80 V |
| **Current per channel** | 0 to 7.5 A |
| **Power per channel** | 600 W |
| **Topology** | linear DC programmable supply |
| **Operating modes** | CV CC auto crossover |
| **Programming resolution design** | 16 bit |
| **Readback digits** | 4 digit voltage and current |
| **Worst case accuracy family** | 600 ppm class |
| **Voltage programming accuracy family 80 V models** | 0.02 percent + 24 mV typical table form |
| **Current programming accuracy family** | 0.03 percent + offset per model table |
| **Temperature coefficient CV** | 100 ppm per C |
| **Temperature coefficient CC** | 200 ppm per C |
| **Transient response family** | 50 us |
| **Ripple and noise PARD** | low mV peak to peak linear family |
| **AC input selection** | 1 ph 120 Vac or 1 ph 240 Vac |
| **Remote interfaces** | GPIB and RS-232 standard |
| **Command set** | SCPI |
| **Drivers** | LabVIEW and LabWindows |
| **Remote sense** | yes compensates line drop |
| **Sequencing** | four 20 step VLIST or ILIST profiles |

| PARAMETER | VALUE |
| --- | --- |
| **Protection** | OVP OCP OTP fault dry contact remote shutdown |
| **Series parallel** | supported for higher V or I |
| **Front panel** | LCD digital encoder and keypad |
| **Calibration** | in rack closed case digital calibration |
| **Form factor** | rackmount ready PD chassis |
| **Related single output** | PD80-7.5 without D suffix |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Model** | PD80-7.5D |
| **Manufacturer** | Amrel / American Reliance |
| **Instrument Type** | Dual Output Programmable DC Linear Power Supply |
| **Alias** | PD80-7.5D; Amrel PD 80-7.5D; PD80-7.5 dual |
| **Output channels** | 2 |
| **Voltage per channel** | 0 to 80 V |
| **Current per channel** | 0 to 7.5 A |
| **Power per channel** | 600 W |
| **Topology** | linear DC programmable supply |
| **Operating modes** | CV CC auto crossover |
| **Programming resolution design** | 16 bit |
| **Readback digits** | 4 digit voltage and current |
| **Worst case accuracy family** | 600 ppm class |
| **Voltage programming accuracy family 80 V models** | 0.02 percent + 24 mV typical table form |
| **Current programming accuracy family** | 0.03 percent + offset per model table |
| **Temperature coefficient CV** | 100 ppm perCTemperature coefficient CC: 200 ppm perCTransient response family: 50 us |
| **Ripple and noise PARD** | low mV peak to peak linear family |
| **AC input selection** | 1 ph 120 Vac or 1 ph 240 Vac |
| **Remote interfaces** | GPIB and RS-232 standard |
| **Command set** | SCPI |
| **Drivers** | LabVIEW and LabWindows |
| **Remote sense** | yes compensates line drop |
| **Sequencing** | four 20 step VLIST or ILIST profiles |

| PARAMETER | VALUE |
| --- | --- |
| **Protection** | OVP OCP OTP fault dry contact remote shutdown |
| **Series parallel** | supported for higherVorIFront panel: LCD digital encoder and keypad |
| **Calibration** | in rack closed case digital calibration |
| **Form factor** | rackmount ready PD chassis |
| **Related single output** | PD80-7.5 withoutDsuffix |

Notes
Channel ratings from Amrel PD Series listings for PD80-7.5 (0–80 V, 0–7.5 A, 600 W) with D = dual outputs per Amrel naming. Accuracy/ripple rows follow PD Series datasheet family tables; confirm exact dual-channel wiring, AC input strap, and measured full-scale accuracy on the unit.

## Available from Aumictech

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

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

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