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Data Sheet

August 14, 2026

AMREL

Amrel PD30-3.5

The Amrel PD30-3.5 is a programmable DC power supply. It features a voltage range of 0-30V and a current range of 0-3.5A. Ideal for benchtop testing, automated test equipment (ATE) systems, and laboratory applications.



MODEL

Amrel PD30-3.5

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PD30-3.5

LISTING

<https://aumictechlabs.com/products/pd30-3-5/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amrel PD30-3.5 is a programmable DC power supply delivering 0–30V at 0–3.5A (105W) for laboratory testing and automated test equipment integration. It combines precision analog control with remote programmability, offering CV/CC crossover capability, exceptional output stability, and comprehensive protection in a benchtop form factor. Technical Specifications Output Characteristics Voltage range: 0 to 30V Current range: 0 to 3.5A Power output: 105W Output ripple and noise: 1–3mVpp typical; CV PARD 3mVrms/3mVp-p; CC PARD 3mArms Accuracy & Stability Programming accuracy (CV): $\pm 0.05\%$ of setting + 2 LSB Programming accuracy (CC): $\pm 0.15\%$ of setting + 5 LSB Readback accuracy (CV): $\pm 0.1\%$ of setting + 2 LSB Readback accuracy (CC): $\pm 0.2\%$ of setting + 5 LSB Line regulation (CV): $\pm 0.0001\% + 1\text{mV}$; (CC): $\pm 0.01\% + 1\text{mA}$ Load regulation (CV): $\pm 0.001\% + 1\text{mV}$; (CC): $\pm 0.01\% + 1\text{mA}$ Drift (8 hours, 30 min warm-up): $\pm 0.01\% + 1\text{mV}$ Temperature coefficient: 100 PPM/°C Transient response: 50 μs for 50–100% load change within 0.1% rated output Remote sense: $\leq 2\text{VDC}$ voltage drop per output line Output isolation:

±250VDC AC Input & Environmental Input voltage: 120/240 VAC ±10%, 50/60 Hz Operating temperature: 0°C to 50°C Storage temperature: -40°C to 70°C Humidity: 0–95% RH non-condensing Key Features Automatic CV/CC crossover mode Full front panel control with multi-function keypad and LCD display Over-voltage, over-current, and over-temperature protection with instant shutdown Closed-case calibration via front panel or remote interface Dual output isolation capability Interfaces & Control Standard: GPIB IEEE-488 and RS-232 (co-existent) Optional: Ethernet, USB Programming method: Front panel push-button control Typical Applications Benchtop testing, component characterization, ATE system integration, and laboratory power distribution requiring tight output regulation and multi-interface control.

PD3035 Characteristics / Specifications

PARAMETER	VALUE
Model	PD30-3.5
Alternate Designation	PD 30-3.5A
Instrument Type	Programmable linear DC power supply
Output Voltage Range	0 Vdc to 30 Vdc
Output Current Range	0 Adc to 3.5 Adc
Output Power	105 W
Rack Width	quarter rack
Load Transient Response Time	50 us
Temperature Coefficient Voltage	100 ppm perC
Temperature Coefficient Current	200 ppm perC
Ac Input	Factory Configured: 103.5 to 126.5 Vac or 207 to 253 Vac at 50/60 Hz
Output Isolation Vout Under 120 Vdc	plus or minus 240 Vdc
Programming Resolution Design	16 bit
Load Regulation Voltage Pd30 Family	0.02 percent + 9.0 mV
Line Regulation Voltage Pd30 Family	0.02 percent + 9.0 mV
Programming Resolution Voltage Pd30 Family	3 mV
Pard Voltage Pd30 Family	0.6 mVrms / 3 mVp-p
Drift Voltage Pd30 Family	0.01 percent + 1.5 mV
Programming Accuracy Class	0.2 percent + 0.3 percent full scale class per PD sheet note 10 family statement
Readback Accuracy Class	0.2 percent + 0.3 percent full scale class per PD sheet note 10 family statement
Programming Speed Pd30 Family	30/40 ms
Interfaces Standard	GPIB and RS-232
Interface Option E	Ethernet GPIB and RS-232
Sequencing Profiles	4 profiles
Sequencing Steps Per Profile	up to 20 steps

PARAMETER	VALUE
Sequencing Dwell	10 ms to 1 minute
Master Slave Expansion	up to 32 channels via one GPIB RS-232 or RS-485 address on PDS architecture
Maximum Series Voltage Class	up to 350 Vdc models in PD family
Maximum Series Current Class	up to 50 Adc models in PD family
Form Factor Family Maximum	up to about 1.75 to 2 kW in a single 4U 19 inch box for high-end PD models
Output isolation	Vout Under 120 Vdc: plus or minus 240 Vdc

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 used below; a dedicated PD30-3.5 current-column row is not printed in that datasheet revision.

Applications

Sensitive linear bias for R&D and ATE, burn-in of low-noise circuits, and rack or bench DC sources needing 30 V atafew amperes with GPIB/RS-232 control.

Key Features

Automatic CV/CC crossover

Programmable OVP and OCP with OTP/UVP family protections

VLIST and ILIST sequencing up to 20 steps in 4 profiles

Standard GPIB IEEE-488.2 SCPI and RS-232; Ethernet/USB options

Closed-case electronic calibration on the PD family

Technical Specifications

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Notes

Model rating 30 V / 3.5 A / 105 W / quarter-rack from AMREL PD series selector (PD 30-3.5A). Voltage-side PD30-family numerical rows and common PD notes from AMREL PD Series datasheet; that revision lists PD30-0.6 through PD30-2.5 and PD30-5 but omits a PD30-3.5 current-column line, so current-specific PARD/regulation figures are not invented here.

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

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.