

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

CCS

CCS psb3-30024 Power Supply for LED Lighting

CCS Embedded Test Systems. Voltage: ** 100 to 240 VAC ($\pm 10\%$ -15%), Current: ** 40 A typical (from a cold start), Voltage: ** 24 VDC.



MODEL

CCS psb3-30024

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

psb3-30024

LISTING

<https://aumictechlabs.com/products/psb3-30024-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The CCS psb3-30024 is a high-capacity analog control unit designed for industrial lighting applications. It has versatile control methods, including analog, serial (EIA-485), and parallel communication, allowing for flexible integration into various automation and control systems. This unit is engineered for demanding environments and provides solid performance for tasks such as machine vision, quality inspection, and process control where precise light management is critical. Technical Specifications General Manufacturer: CCS Inc. (also listed under Omron Industrial Automation) Model: psb3-30024 Product Type: Analog Control Unit (Constant Voltage) Conformed Standards: CE, UKCA, RoHS Operating Temperature: 0 to 40°C (32 to 104°F) Storage Temperature: -20 to 60°C (-4 to 140°F) Operating Humidity: 20 to 85%RH (no condensation) Storage Humidity: 20 to 85%RH (no condensation) Cooling Method: Natural air cooling Electrical Input Voltage: 100 to 240 VAC ($\pm 10\%$ -15%) Frequency: 50/60 Hz Power Consumption: 410 VA typical Inrush Current: 40 A typical (from a cold start) Applicable Light Unit Output Rating: 24 V / 300 W Rated Output Voltage: 24 VDC Rated Output Current: Total for 3 channels: 1.1 A (Note:

While the unit is listed as 1 channel for output rating, other sources indicate multiple output connectors, and one mentions 3 channels for rated output current. Clarification may be needed based on specific application.) Overcurrent Protection: Yes, operates at approximately 105-107% of rated current, resettable by cycling power or holding the setting switch Overvoltage Protection: Yes Interfaces Control Methods: Analog, Serial (EIA-485), Parallel Analog Input: Analog voltage (0 V to +5 V) Serial Communication: EIA-485 communication, command input * ID Settings: 00 to 03 via ID switch * Supports multi-drop wiring for up to four units * Terminating resistance setting via ID switch Parallel Communication: 8-bit intensity value setting (B0 to B7) and write signal (WR) * Offers the fastest time for switching between set values Manual Intensity Control: 256 steps via setting switch, with a function to lock the intensity value by pressing and holding the switch for 2 seconds Output Connectors (Light Unit): * 2 x SRCN2A16-7S (Pins 1-3: output (+), Pins 4-6: output (-), Pin 7: NC) * 2 x ELR-02V External Control Connector: * Parallel communications connector (20-pin MIL-C-83503 compliant) * ON/OFF input connector (10-pin MIL-C-83503 compliant) * EIA-485 communications/analog input connector (e-CON compliant) Error Detection Display: "Err" displayed on the digital display Error Detection Output: Transistor output via external control connector. Normal operation: Open. Overcurrent output detected: Closed. (Also described as photocoupler insulated, open-collector output) Physical Dimensions (W x D x H): 97 mm x 245 mm x 110 mm Weight: 2,300g (Note: some sources list weights for different series like PD3/PD4, which can vary from 400g to 1500g. The PSB3-30024 specifically is 2.3kg) Material: Steel plate (cover: t1.0, chassis: t1.6), N3 leather tone finish Ingress Protection: Not explicitly stated, but designed for industrial environments. Compatibility Light Unit Output: Compatible with 24V / 300W Light Units Control: Supports analog voltage (0-5V), EIA-485 serial, and 8-bit parallel control interfaces. Cables: Various communication and control cables are available, including EIA-485 communication cables and parallel communication cables. Software: Sample programs are available for download, facilitating integration and operation Why Choose Aumictech for the CCS psb3-30024? At Aumictech, we specialize in supplying industrial automation components. Whether you need reliable control units for advanced machine vision systems, precise illumination management for critical inspection tasks, or solid solutions for demanding factory environments, our team ensures the CCS psb3-30024 delivers maximum performance and integration flexibility for your application.

PSB330024 Characteristics / Specifications

PARAMETER	VALUE
Model	psb3-30024
Also Known As	PSB3-30024
Instrument Type	LED lighting power supply
Family	CCS PSB3
Output Voltage Class	24 V (30024 token)
Manufacturer	CCS Inc.
Literature	CCS PSB3-30024 LED lighting power-supply listings
System Role	machine-vision LED illuminator supply
Load	CCS 24 V LED ring/bar lights
Dimming Class	0-5 V / PWM / analog dimming on the PSB3 sheet
Input Class	AC mains on the PSB3 sheet
Current Class	output amps on the PSB3-30024 sheet
Power Class	watts on the PSB3-30024 sheet
Protection Class	OVP/OCP on the sheet
Operating Temperature Class	vision-cell ambient on the sheet
Form Factor	external LED PSU module
Brand Lineage	CCS Inc.
Documentation Type	PSB3-30024 listing
Ate Class	vision LED supply
Host Class	machine-vision illuminator
Year Class	PSB3-30024
Use Case	24 V CCS LED lighting
Connector Class	CCS light connector (sheet)
Cooling Class	convection/fan on the sheet
Safety Class	CE class LED PSU

PARAMETER	VALUE
Operating temperature	Class: vision-cell ambient on the sheet

PSB330024 Specifications

PARAMETER	VALUE
Applications	24 V LED illumination power for CCS machine-vision lights.
Key Features	CCS PSB3 LED lighting supply
Dimming input class	Dedicated CCS illuminator PSU
Technical Specifications	Model: psb3-30024

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: vision-cell ambient on the sheet
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Brand Lineage	CCS Inc.
Documentation Type	PSB3-30024 listing
Ate Class	vision LED supply
Host Class	machine-vision illuminator
Year Class	PSB3-30024
Use Case	24 V CCS LED lighting
Connector Class	CCS light connector (sheet)
Cooling Class	convection/fan on the sheet
Safety Class	CE class LED PSU Notes From CCS PSB3-30024 LED lighting power-supply listings (24 V token). Output amps, dimming volts, and AC range are on the PSB3-30024 data sheet; do not invent them.

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	
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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.