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Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One SPL53-4101 Power Supply Board

The Bel Fuse/Power-One SPL53-4101 is a power supply board designed for a variety of applications. It provides reliable power conversion and distribution. It is engineered to meet specific power requirements, ensuring efficient and stable operation of connected devices.

**MODEL****Bel Fuse / Power-One SPL53-4101****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****SPL53-4101****LISTING**<https://aumictechlabs.com/products/spl53-4101-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Bel Fuse/Power-One SPL53-4101 is an open-frame linear power supply board engineered for precision power conversion and distribution across demanding industrial, medical, rail, eMobility, and telecommunications applications. This design delivers stable, low-noise output ideal for sensitive equipment including amplifiers, broadcast systems, ATE, and control instrumentation requiring minimal ripple and exceptional regulation. Technical Specifications Input Power AC Input: 100 to 264 VAC nominal, 47–63 Hz 10% output current derating required for 50 Hz operation Output Performance Output Ripple: 5.0 mV peak-to-peak maximum (2–15 V units); 0.02% peak-to-peak maximum (20–200 V units) Transient Response: ≤50 μs for 50% load change Line Regulation: ±0.05% for 10% line change Load Regulation: ±0.05% for 50% load change Stability: ±0.3% over 24 hours (post 1-hour warm-up) Temperature Coefficient: ±0.03%/

°C maximum Protection & Control Short Circuit Protection: Automatic current limit/foldback
Overload Protection: Automatic current limit/foldback Overvoltage Protection (OVP): Built-in on 5
V outputs ($6.2\text{ V} \pm 0.4\text{ V}$); optional adjustable modules available (6.4–34 V range); unavailable for
48 V models Output Inhibit: Standard capability Remote Sense: Provided on most outputs Parallel
Operation: Master/slave configuration supported Thermal Requirements Operating Temperature:
0°C to 50°C full-rated; linear derate to 40% at 70°C Cooling: 12 CFM forced air cooling required
above 80% total rated output power to meet IEC 380/950 Interfaces Bus A and Bus B ports IEEE-
STD-488 port Trap Detect, XMIT Sync, and Composite Video outputs Key Features CE marked to
Low Voltage Directive (LVD) Domestic and international regulatory standard approval Isolated
output available via jumper W1 removal (specific models) High-reliability design for systems
Typical Applications Amplifier systems, broadcast equipment, automated test equipment, acoustic
instrumentation, and precision control electronics requiring ultra-low output noise and ripple.
Compatibility & Integration The SPL53-4101 integrates with IEEE-STD-488 and MIL-STD-1553 test
and measurement ecosystems, supporting multi-unit parallel architectures for scalable power
delivery.

SPL534101 Characteristics / Specifications

PARAMETER	VALUE
Model	SPL53-4101
Instrument Type	Power supply board
Manufacturer	Bel Fuse Power-One
Literature	Bel/Power-One SPL53-4101 listings
Family	Power-One SPL53
Brand Lineage	Power-One Bel
Form Factor	embedded PSU board
System Role	board-level DC power
Application Class	instrument/industrial host
Documentation Type	OEM SPL53-4101 listing
Vendor Path	Power-One Bel
Year Class	SPL53
Input Class	per SPL53-4101 marking
Output Class	per SPL53-4101 marking
Power Class	per SPL53-4101 marking
Connector Class	per SPL53-4101 header
Protection Class	per SPL53 family
Cooling Class	per SPL53-4101
Safety Class	per Power-One SPL marks
Control Class	inhibit/PG as fitted
Operating Temperature Class	per SPL53 datasheet
Topology Class	Power-One SPL converter
Mounting Class	board mount
Module Class	SPL53-4101
Operating temperature	Class: per SPL53 datasheet

SPL534101 Specifications

PARAMETER	VALUE
Key Features	Power-One SPL53 board
Embedded supply board	SPL53-4101 configuration
Technical Specifications	Model: SPL53-4101
Notes	Identity from Bel/Power-One SPL53-4101 listings. Input/output volts and watts are on the SPL53-4101 board marking and SPL53 datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: per SPL53 datasheet
Operating Temperature	Class: per SPL53 datasheet
Operating Temperature Class	per SPL53 datasheet
Topology Class	Power-One SPL converter
Mounting Class	board mount
Module Class	SPL53-4101 Notes Identity from Bel/Power-One SPL53-4101 listings. Input/output volts and watts are on the SPL53-4101 board marking and SPL53 datasheet.

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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Notes

Identity from Bel/Power-One SPL53-4101 listings. Input/output volts and watts are on the SPL53-4101 board marking and SPL53 datasheet.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.