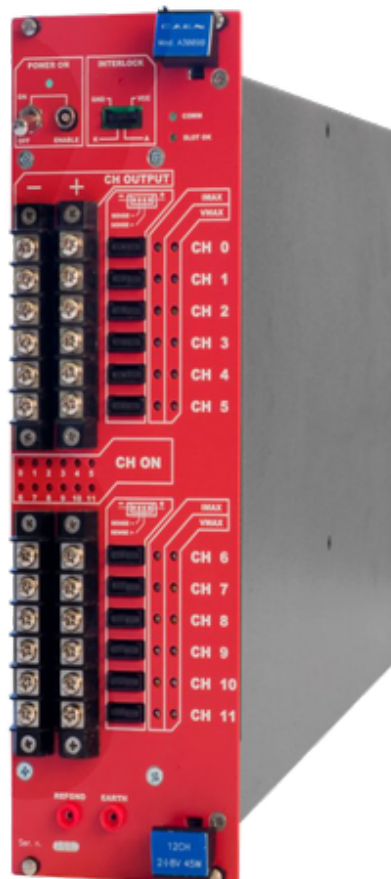
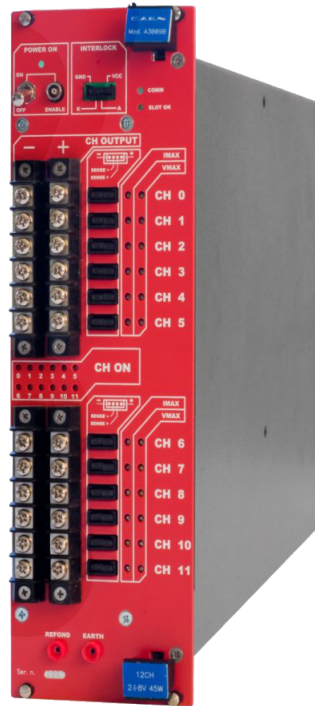


A3009B

12 Channel 8 V / 9 A / 45 W Power Supply Board



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 12 floating 1.5 ÷ 8 V / 9 A channels
- 45 W maximum output power per channel
- VMax and IMax set by trimmer for each channel
- On/Off for each channel
- Channels individually controlled and protected
- Voltage Drop compensation via sense wires
- Interlock capability
- 48 V Service local and remote on/off
- Screw Lock output connectors

Description

The CAEN **Mod.A3009B** 12 Channel 8 V / 9 A Power Supply Board is developed for operation in magnetic field and moderate radioactive environment. One A3009B houses 12 **floating** (reversible polarity) 8 V / 9 A / 45 W maximum output power channel. The connector output voltage range is 1.5 ÷ 8 V with 5 mV monitor resolution; channel control includes various alarms and protections. The board is provided with Remote Sensing Lines to compensate for the voltage drop over the connection cables.

Screw lock connector

Conn Header R/A 64 pos 2.54mm for Mod. A3009B, A3009RB

Consult our **connectors reference page** for technical information.

Safety features allows the module to perform as a current generator and includes:

Channels	can be enabled or disabled through the Global Interlock logic.
Overvoltage and Undervoltage warning	when the output voltage differs from the programmed value by more than 3% of voltage full scale range.
Overcurrent detection	When a channel attempts to exceed the programmed current limit, it signalled to be in "overcurrent" and enter in a TRIP status. The output voltage is varied to keep the current below the programmed limit for a programmable TRIP time, then the channel is switched off. If TRIP is set to "constant current mode", the channel behaves like a current generator.
Hardware VMAX and IMAX	Maximum output voltage and maximum current value can be fixed via software with 5 mV resolution and the output voltage can not be programmed beyond this value.

Technical Specifications

No. of Channels

12

Polarity

Floating

Output Voltage

1.5 ÷ 8 V (connector output)

The board works properly with a V_{set} larger than 1.25 V and a current on the load larger than 10 A

Max. Output Current

9 A

Voltage Set/Monitor Resolution

5 mV

Current Set/Monitor Resolution

10 mA

VMAX hardware

1.5 ÷ 8 V

VMAX software

1.5 ÷ 8 V

VMAX software resolution

5 m V

Voltage Ripple

<20 mVpp on 10 μ F // 0.1 μ F 10 Hz-15 MHz

From 10 Hz to 15 MHz at full load; measured with the line terminated on a 10 μ F capacitance and a 100 nF ceramic capacitance in parallel to the load

Voltage Monitor vs. Output Voltage Accuracy

max. ± 30 mV $\pm 0.3\%$ of reading

Voltage Set vs. Output Voltage Accuracy

max. ± 30 mV $\pm 0.3\%$ of reading

Current Monitor vs. Output Current Accuracy

± 0.05 A $\pm 2\%$ of reading

Current Set vs. Output Current Accuracy

± 0.05 A $\pm 2\%$ of reading

From 10% to 90% of Full Scale Range

Load Regulation

$\pm 0.3 \%$ (with sense wires)
 $\pm 2 \%$ (without sense wires)
From 10% to 90% of Full Scale Range

Output Power (per Channel)

45 W

Test Set Up

- Cable: length = 20~30 m; diam.= 10 mm (for both output and return) with sense wires connected
- Test load: 250÷2000 W (nominal)
- Load capacitance: 100 μ F electrolytic // 100 nF ceramic (// to the load)

Weight

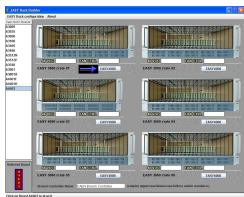
5.5 kg

Ordering Options

Code	Description
WE3009BXAAAA	A3009B - EASY3000 L.V. channels 8 V/9 A/45 Wfloating - Screw Conn. (12 ch)
WE3009RBXAAA	A3009RB - EASY3000 L.V. channels 8 V/9 A/45 W floating - Ramp Up control - Screw Conn. (12 ch)

Related Software

EASY_XML



EASY Rack Configuration Files

Related Products

EASY3000B



Crate for EASY3000 System for Hostile Area with Bolt Connectors

EASY3000

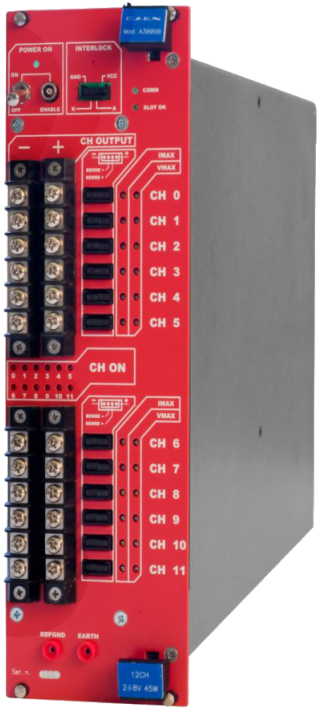


Crate for EASY3000 Power Supply System for Hostile Area

EASY3000S



Front Access Crate for EASY3000 System for Hostile Area



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