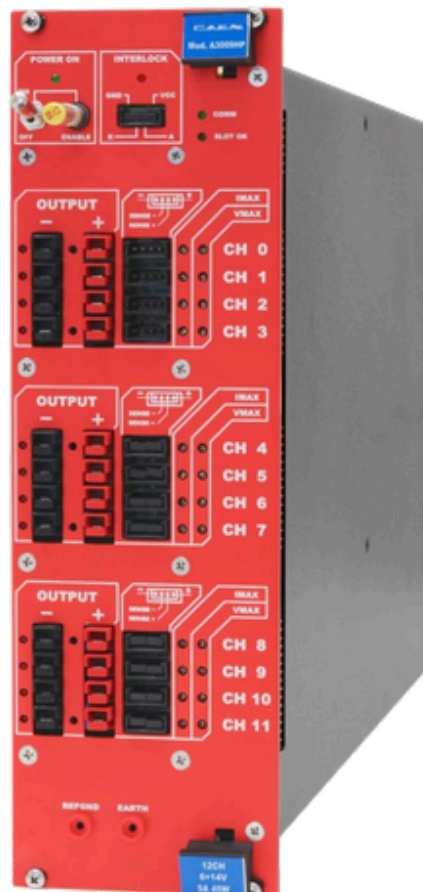
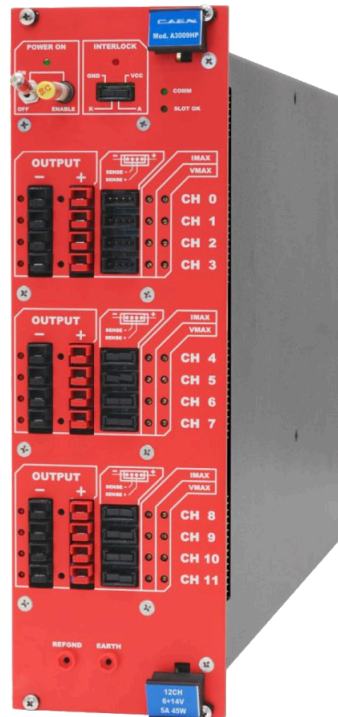


A3009H

12 Channel 14 V / 9 A / 45 W Power Supply Board



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 12 floating $4 \div 14$ V / 5 A channels (positive polarity)
- APP30 connectors
- 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

Description

The CAEN **Mod.A3009H** 12 Channel 14 V / 5 A Power Supply Board is developed for operation in magnetic field and moderate radioactive environment. One A3009H houses 12 positive 14 V / 5 A / 45 W maximum output power, channels. The connector output voltage range is 6 ÷ 14 V with 5 mV monitor resolution; channel control includes various alarms and protections. A $11.8V \pm 0.1V$ hardware limit is available on request. The board is provided with Remote Sensing Lines to compensate for the voltage drop over the connection cables.

APP30 connector

APP30 1317G4 type connector for Mod.A3009HP

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, APP30 connectors

Polarity

Positive; full floating (return individually insulated with respect to earth)

Output Voltage

6 ÷ 14 V (connector output) 11.8V ± 0.1V hardware limit available on request; a label on the front panel indicates the hardware voltage limit installation

Max. Output Current

5 A

Voltage Set/Monitor Resolution

5 mV

Current Set/Monitor Resolution

10 mA

VMAX hardware

6 ÷ 14 V

VMAX software

6 ÷ 14 V

VMAX software resolution

5 mV

Ramp Up

from 0.1 V/s to 400 V/s with 0.1 V/s steps

Voltage Ripple

<20 mV pp on 10 µF // 0.1 µF 10 Hz-15 MHz

Voltage Monitor vs. Output Voltage Accuracy

max. ±30 mV ±0.3% of reading

Voltage Set vs. Output Voltage Accuracy

max. ±30 mV ±0.3% of reading

Current Monitor vs. Output Current Accuracy

± 0.05A ± 2% of reading

Current Set vs. Output Current Accuracy

$\pm 0.05\text{A} \pm 2\%$ of reading

Load Regulation

$\pm 0.3\%$ (with sense wires) $\pm 2\%$ (without sense wires)

Output Power (per Channel)

45 W

Test Set Up

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

Weight

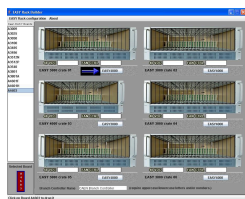
5.5 kg

Ordering Options

Code	Description
WE3009HPXAAA	A3009HP - EASY3000 L.V. channels 14 V/5 A/45W - APP Conn. (12 Ch. Positive)

Related Software

EASY_XML



EASY Rack Configuration Files

Related Products

EASY3000S



Front Access Crate for EASY3000 System for Hostile Area

EASY3000

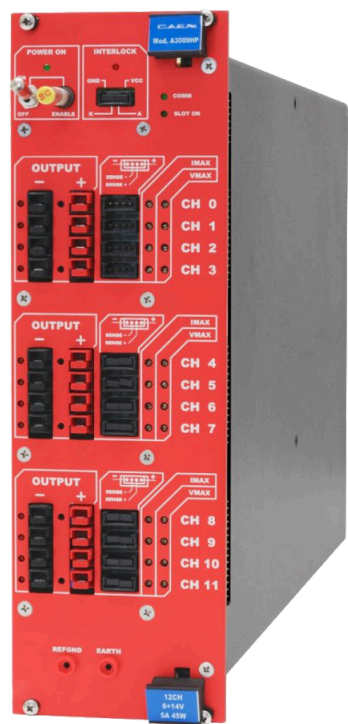


Crate for EASY3000 Power Supply System for Hostile Area

EASY3000B



Crate for EASY3000 System for Hostile Area with Bolt Connectors



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