A3009HB

12 Channel 14 V / 5 A / 45 W Power Supply Board

OBSOLETE

The A3009HB is a 12-channel EASY subsystem power supply board for magnetic-field and moderate-radioactive environments. It provides 12 floating positive-polarity channels, each adjustable from 4 ÷ 14 V with 5 A and 45 W maximum output power; connector output voltage is 6 ÷ 14 V with 5 mV monitor resolution. Each channel has on/off control, trimmer-set VMax and IMax, individual control and protection, overvoltage, undervoltage and overcurrent monitoring, and programmable TRIP operation including constant-current mode. Remote sensing compensates cable voltage drop, with interlock capability and local or remote 48 V service on/off.

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Overview

Product Highlights

- EASY Subsystem Power Supply Module
- 12 floating 4 ÷ 14 V / 5 A channels (positive polarity)
- 45 W maximum output power per channel
- On/Off for each channel
- Voltage Drop compensation via sense wires
- 48 V Service local and remote on/off
- Magnetic field and radiation tolerant
- Screw lock connectors
- VMax and IMax set by trimmer for each channel
- Channels individually controlled and protected
- Interlock capability

Product Description

The CAEN **Mod.A3009HB** 12 Channel 14 V / 5 A Power Supply Board is developed for operation in magnetic field and moderate radioactive environment. One A3009HB 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 ± 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.

Screw lock connector
Conn Header R/A 64pos 2.54mm for Mod. A3009HB

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.

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Technical Specifications

No. of Channels	12; Screw lock output 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	<20mV pp on 10µF //0.1 µF 10Hz-15MHz
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	± 0.05A ± 2% of reading
Load Regulation	± 0.3 % (with sense wires) ± 2 % (without sense wires)
Output Power (per Channel)	45 W
Test Set Up	cable: length = 20~30m; diam.= 10mm (for both output and return) with sense wires connected test load: 250÷2000 W (nominal) load capacitance: 100µF electrolytic // 100nF ceramic (// to the load)
Weight	5.5kg

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Ordering Information

ORDERING CODE	DESCRIPTION	STATUS
WE3009HBPXAA	A3009HBP – EASY3000 L.V. channels 14 V/5 A/45W – Bolt Conn. (12 Ch. Positive)	Obsolete

1. Ordering codes and descriptions are reproduced from the product record. Availability is confirmed at order entry.

Related Products

EASY3000 — Crate for EASY3000 Power Supply System for Hostile Area

EASY3000B — Crate for EASY3000 System for Hostile Area with Bolt Connectors

EASY3000S — Front Access Crate for EASY3000 System for Hostile Area

Software & Control Tools

EASY_XML — EASY Rack Configuration Files

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