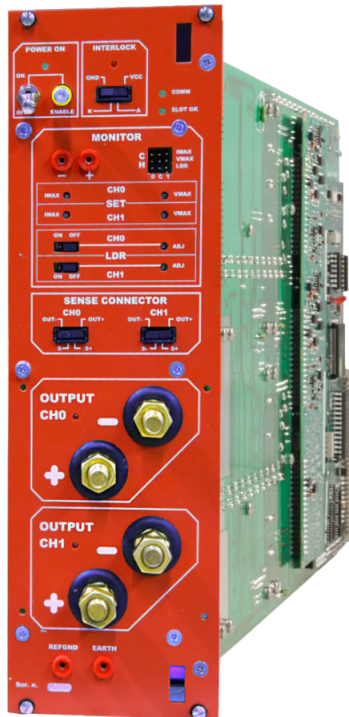


A3050B

**2 Channel 8 V / 50 A
/ 300 W Power
Supply Board**



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 2 floating $2 \div 8 \text{ V} / 50 \text{ A}$ channels
- 300 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
- Line Drop Regulation on board panel
- Interlock capability
- 48 V Service local and remote on/off
- Screw Lock output connectors

Description

The CAEN **Mod.A3050B** 8 V / 50 A / 300 W Power Supply Board is developed for operation in magnetic field and moderate radioactive environment. One A3050B houses 2 floating (reversible polarity) 8 V / 50 A channels (300 W maximum output power per channel).

The connector output voltage range is $2 \div 8$ 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.

Brass hexagon head bolt connector

Brass hexagon head set screw, M6x30mm for Mod. A3050B

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

2

Polarity

Reversible

Output Voltage

2 ÷ 8 V (connector output)

Max. Output Current

50 A

Voltage Set/Monitor Resolution

10 mV

Current Set/Monitor Resolution

100 mA

VMAX hardware

2 ÷ 8 V

VMAX software

2 ÷ 8 V

VMAX software resolution

10 mV

Voltage Ripple

< 10 mV pp (@ full load)

Voltage Monitor vs. Output Voltage Accuracy

max. ± 50 mV $\pm 0.3\%$ of reading

Voltage Set vs. Output Voltage Accuracy

max. ± 50 mV $\pm 0.3\%$ of reading

Current Monitor vs. Output Current Accuracy

± 1 A $\pm 2\%$ of reading

Current Set vs. Output Current Accuracy

± 1 A $\pm 2\%$ of reading

Load Regulation

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

Output Power (per Channel)

300 W

Test set up

- Cable: length = 30m; diam.= 8mm (for both output and return) with sense wires connected
- Test load: > 600W
- Load capacitance: 10 μ F electrolytic // 100 nF ceramic (// to the load)

Weight

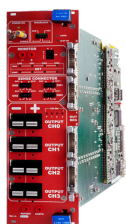
6.5 kg

Ordering Options

Code	Description
WE3050BXAAA	A3050B - EASY3000 L.V. channels 8 V/50 A/300 W floating - Bolt Conn. (2 ch)

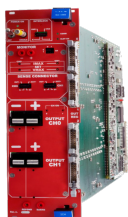
Related Products

A3025



4 Channel 8 V / 25 A / 150 W Power Supply Board

A3050



2 Channel 8 V / 50 A / 300 W Power Supply Board

A3009H



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

A3100



1 Channel 8 V / 100 A / 600 W Power Supply Board

A3602

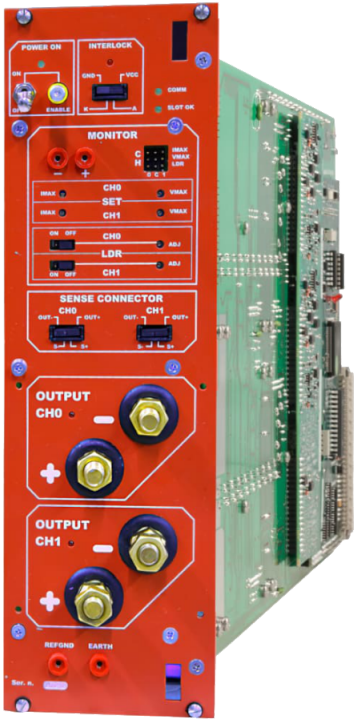


3 Channel 7 V / 5 A / 35 W Power Supply Board

A3100B



1 Channel 8 V / 100 A / 600 W Power Supply Board



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