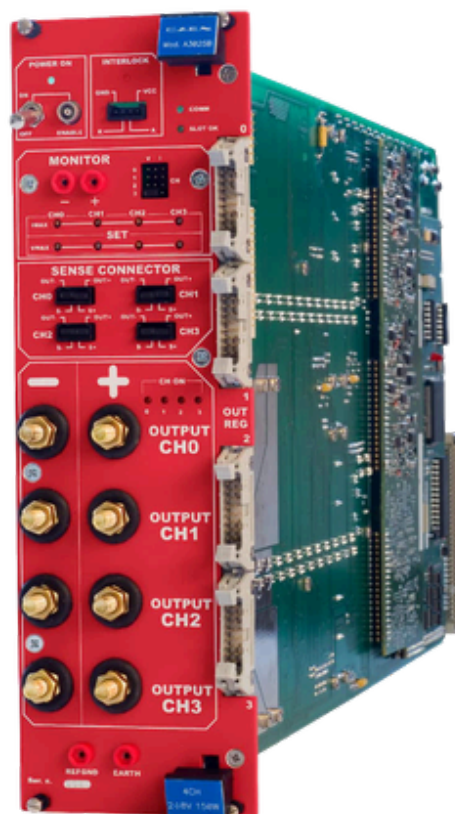
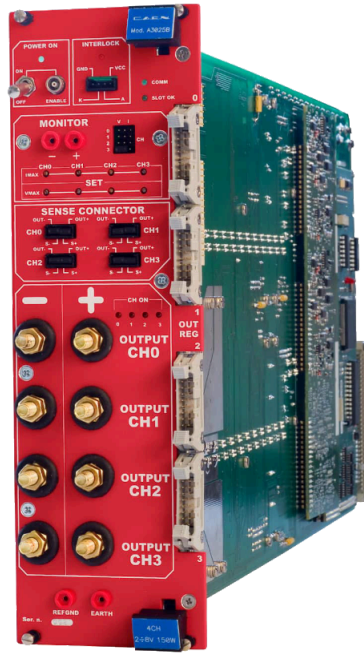


A3025B

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



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 4 floating $2 \div 8 \text{ V} / 25 \text{ A}$ channels
- 150 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.A3025B** is a 4 Channel 8 V / 25 A Power Supply Board, developed for operation in magnetic field and moderate radioactive environment. One A3025 houses 4 floating (reversible polarity) 8 V / 25 A channels (150 W maximum output power per channel).

The connector output voltage range is $1.5 \div 8$ V with 5 mV monitor resolution; channel control includes various alarms and protections.

Brass hexagon head bolt connector

Brass hexagon head set screw, M6x30mm for Mod. A3025B

Consult our [connectors reference page](#) for technical information.

The board is provided with Remote Sensing Lines to compensate for the voltage drop over the connection cables.

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

4

Polarity

Reversible

Output Voltage

2 ÷ 8 V (connector output)

Max. Output Current

25 A

Voltage Set/Monitor Resolution

10 mV

Current Set/Monitor Resolution

10 mA

VMAX hardware

2 ÷ 8 V

VMAX software

2 ÷ 8 V

VMAX software resolution

5 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)

150 W

Test Set Up

cable: length = 30m; diam.= 8 mm (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

6kg

Ordering Options

Code	Description
WE3025BXAAAA	A3025B - EASY3000 L.V. channels 8 V/25 A/150 W floating - Bolt Conn. (4 ch)

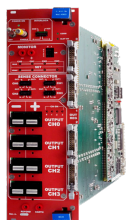
Related Products

A3009



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

A3025



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

A3100HBP



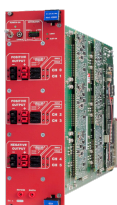
1 Channel 8-14 V / 50 A / 600 W Power Supply Board

A3602

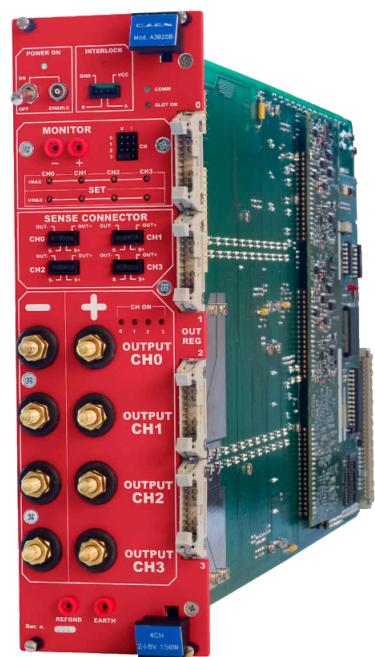


3 Channel 7 V / 5 A / 35 W Power Supply Board

A3006



4 Positive and 2 Negative Ch 16 V / 6 A / 90 W Power Supply Board



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