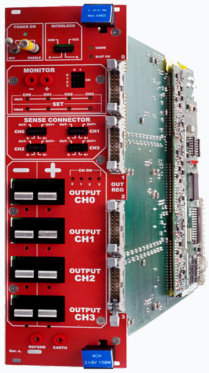
# A3025

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

| 4 | APP PC5933T | 5 |
|---|---|---|
| No. of Channels | Connectors | No. max of boards per crate |

The A3025 is a four-channel EASY subsystem power supply board for magnetic-field and moderate-radioactive environments. It provides four floating, reversible-polarity channels, each delivering 2 ÷ 8 V and up to 25 A, with 150 W maximum output power. Output voltage at the connector ranges from 1.5 ÷ 8 V with 5 mV monitor resolution. Each channel is individually controlled and protected, with adjustable VMax and IMax, on/off control, remote sensing for cable-drop compensation, interlock capability and local or remote 48 V service on/off. Available as A3025 or A3025B.

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# Overview

## Product Highlights

- EASY Subsystem Power Supply Module
- 4 floating 2 ÷ 8 V / 25 A channels
- VMax and IMax set by trimmer for each channel
- Channels individually controlled and protected
- Interlock capability
- Magnetic field and radiation tolerant
- 150 W maximum output power per channel
- On/Off for each channel
- Line Drop Regulation on board panel
- 48 V Service local and remote on/off

## Product Description

The CAEN Mod. A3025 is a 4 Channel 8 V / 25 A Power Supply Board, developed for operation in magnetic field and moderate radioactive environment. Each A3025 houses four floating channels with reversible polarity, each rated 8 V / 25 A with a maximum output power of 150 W per channel.

The board is available in two versions: the Mod. A3025, with APP PC5933T output connectors, and the Mod. A3025B, with screw locks for connecting the output cables. The A3025 mounts vertical-contact MINI P/CLAW connectors of the APP PC5933T type. For further technical details, please refer to our connectors reference page.

The output voltage range at the connector is 1.5 ÷ 8 V, with 5 mV monitor resolution, and channel control includes various alarms and protections. The board is also provided with Remote Sensing Lines that compensate for the voltage drop over the connection cables.

Its safety features allow the module to perform as a current generator. All channels can be enabled or disabled through the Global Interlock logic. An Overvoltage or Undervoltage warning is issued when the output voltage differs from the programmed value by more than 3% of the voltage full scale range.

When a channel attempts to exceed the programmed current limit, Overcurrent detection signals it as being in “overcurrent” and puts it into TRIP status. The output voltage is then varied to keep the current below the programmed limit for a programmable TRIP time, after which the channel is switched off. If TRIP is set to “constant current mode”, the channel behaves like a current generator.

Finally, the Hardware VMAX and IMAX values, which set the maximum output voltage and the maximum current, can be fixed via software with 5 mV resolution, and the output voltage cannot be programmed beyond this value.

**AT A GLANCE**

| | |
|---|---|
| No. of Channels | **4** |
| Connectors | **APP PC5933T** |
| No. max of boards per crate | **5** |
| Width (slots) | **4** |
| Max power per channels | **150 W** |
| Iset/Imon resolution | **100 mA** |

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# 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** | 100 mA |
| **VMAX hardware** | 0 ÷ 9 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 ±0.3% of reading |
| **Voltage Set vs. Output Voltage Accuracy** | max. ±50 mV ±0.3% of reading |
| **Current Monitor vs. Output Current Accuracy** | ± 1A ± 2% of reading |
| **Current Set vs. Output Current Accuracy** | ± 1A ± 2% of reading |
| **Load Regulation** | ± 0.3 % (with sense wires)<br>± 2 % (without sense wires) |
| **Output Power (per Channel)** | 150 W |
| **Test Set Up** | cable: length = 30m; diam.= 8mm (for both output and return) with sense wires connected<br>test load: >600W<br>load capacitance: 10µF electrolytic // 100nF ceramic (// to the load) |
| **Weight** | 6kg |

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# Ordering Information



| ORDERING CODE | DESCRIPTION |
|---|---|
| WE3025XAAAAA | A3025 – EASY3000 L.V. channels 8 V/25 A/150 W floating – APP Conn. (4 ch) |

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

## Related Products

**A3006** — 4 Positive and 2 Negative Ch 16 V / 6 A / 90 W Power Supply Board

**A3050** — 2 Channel 8 V / 50 A / 300 W Power Supply Board

**A3050B** — 2 Channel 8 V / 50 A / 300 W Power Supply Board

**A3602** — 3 Channel 7 V / 5 A / 35 W Power Supply Board

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