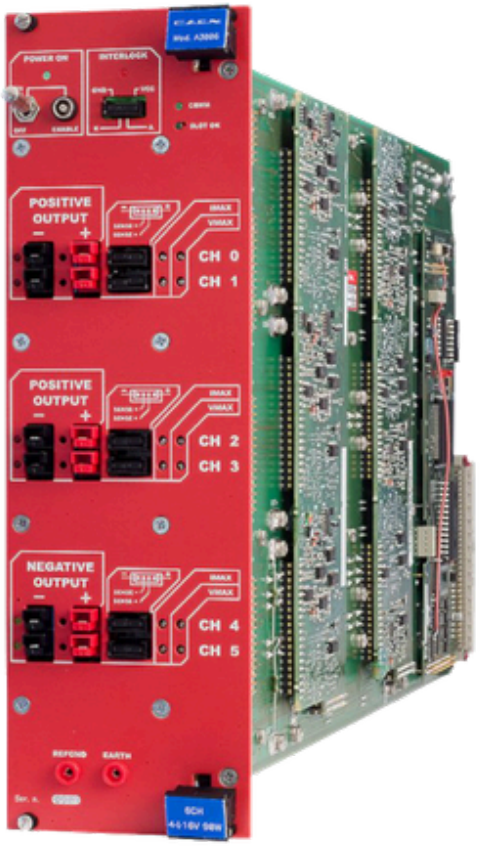
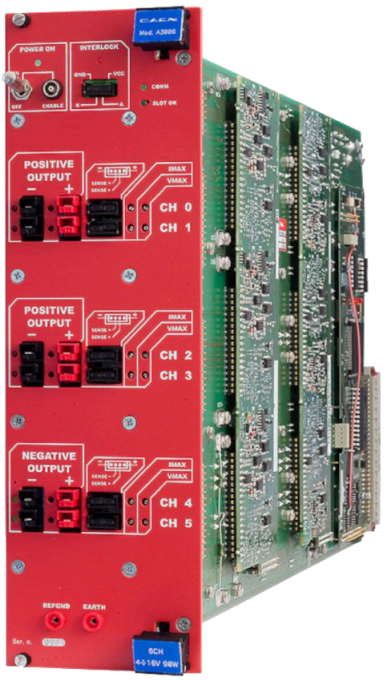
A3006

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



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 4 positive and 2 negative 4 ÷ 16 V / 6 A channels
- 90 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
- Common floating return

Description

The CAEN **Mod. A3006** 16 V / 6 A / 90 W Power Supply Board is developed for operation in magnetic field and radioactive environment. One A3006 houses four positive and two negative 16 V / 6 A (90 W maximum output power) channels. The board is **floating** up to 50 V with respect to earth. The connector output voltage range is 4 ÷ 16 V with 10 mV monitor resolution. 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.A3006

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 10 mV resolution and the output voltage can not be programmed beyond this value.

Technical Specifications

No. of Channels	6
Polarity	4 positive and 2 negative channels
Output Voltage	4 ÷ 16 V (connector output)
Max. Output Current	6 A
Voltage Set/Monitor Resolution	10 mV
Current Set/Monitor Resolution	10 mA
VMAX hardware	4 ÷ 16 V
VMAX software	4 ÷ 16 V
VMAX software resolution	10 m V
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	± 0.05 A ± 2% of reading

Load Regulation

- ± 0.3 % (with sense wires)
- ± 2 % (without sense wires)

Output Power (per Channel)

90 W

Test Set Up

- cable: length = 20~30 m; diameter = 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

5.2 kg

Ordering Options

Code	Description
WE3006XAAAAA	A3006 - EASY3000 L.V. channels 16 V/6 A/90 W floating - APP Conn. (2 Ch neg. and 4 Ch pos.)

Related Products

A3009B

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

A3009HB

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

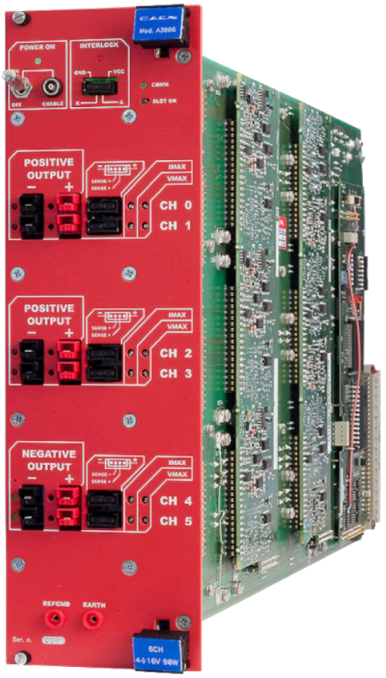
A3009H

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

A3009

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

Gallery


POWER ON
INTERLOCK
POSITIVE OUTPUT
CH 0
CH 1
POSITIVE OUTPUT
CH 2
CH 3
NEGATIVE OUTPUT
CH 4
CH 5
REFGND
EARTH

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