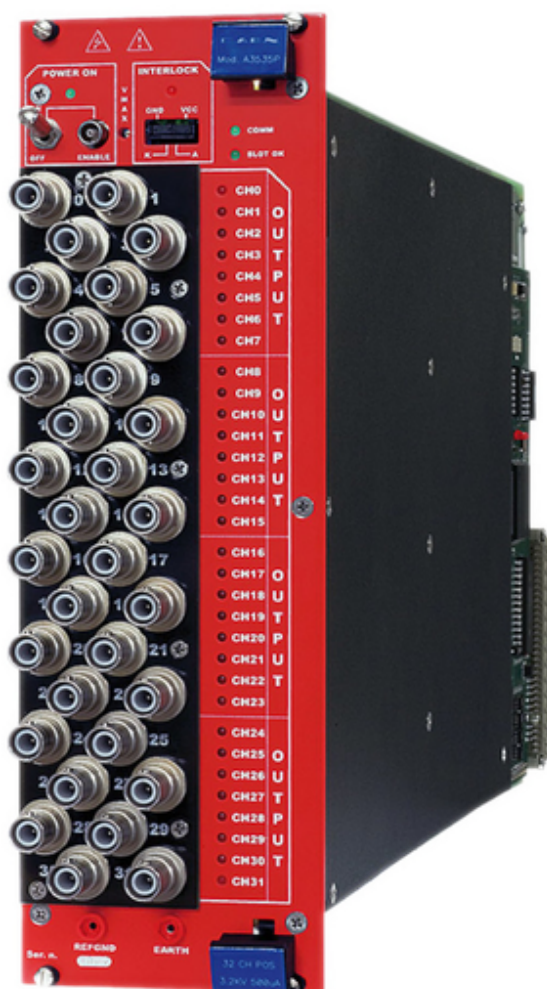
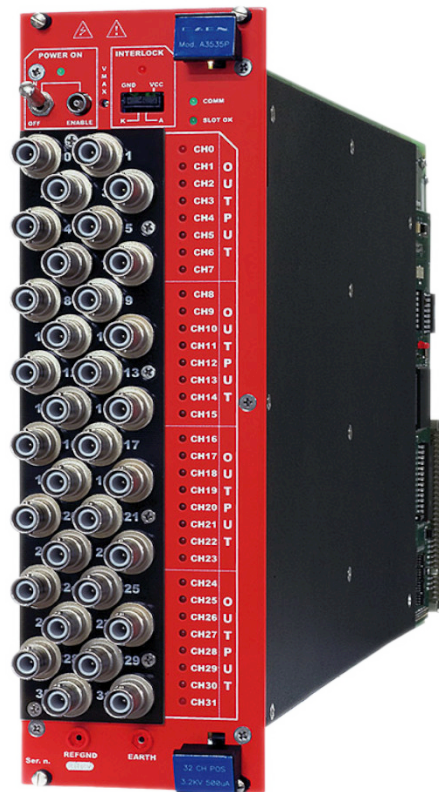


A3535

32 Channel 3.2 kV / 0.5 mA / 1.1 W Board



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 32 3.2 kV / 0.5 mA channels
- Common Floating Return
- VMax and IMax set by trimmer
- Channel protections: overvoltage, overcurrent, overtemperature
- On/Off for each channel
- Interlock capability
- Local and remote 48V Service on/off

Description

The CAEN **Mod. A3535** 3.2 kV / 0.5 mA / 1.1 W Power Supply Board is developed for operation in magnetic field and radioactive environment. One A3535 houses 32 3.2 kV / 0.5 mA channels with **common floating return**. The output voltage can be set with 500 mV monitor resolution.

SHV connector

Radiall R317580 HV coaxial connector, 32 channels for Mod. A3535P/N

Consult our **connectors reference page** for technical information.

Moreover, for each channel, a voltage protection limit SVMAX can be fixed via software with 500 mV resolution and the output voltage can not be programmed beyond this value.

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

Maximum output voltage can be set via front panel potentiometer, at the same common value for all the board channel. VMAX value can be read out via software.

Technical Specifications

No. of Channels

32

Polarity

Positive / Negative depending on purchased version; common floating return

Output Voltage

0 ÷ 3.2 kV (connector output)

Maximum Output Power

1.1 W per channel

Max. Output Current

0.5 mA

Voltage Set/Monitor Resolution

500 mV

Current Set/Monitor Resolution

100 nA

VMAX hardware

0 ÷ 3.2 kV

VMAX hardware accuracy

± 2% of FSR

VMAX software

0 ÷ 3.5 kV

VMAX software resolution

500 mV

Voltage Ripple

< 50 mV pp From 10 Hz to 15 MHz at full load

Voltage Monitor vs. Output Voltage Accuracy

± 0.3% of reading ± 1 V

Voltage Set vs. Output Voltage Accuracy

± 0.3% of setting ± 1 V

Current Monitor vs. Output Current Accuracy

± 2% of reading ± 0.3 µA

Current Set vs. Output Current Accuracy

$\pm 2\%$ of setting $\pm 1\ \mu\text{A}$

Weight

3.2kg

Ordering Options

Code	Description
WE3535XAAAAA	A3535N - EASY3000 H.V. channels -3.2 KV 0.5 mA common floating (32 ch)
WE3535XPAAAA	A3535P - EASY3000 H.V. channels +3.2 KV 0.5 mA common floating (32 ch)

Related Products

A3802



128 Channel DAC Board

A3501



12 Channels 100 V / 1 mA Power Supply Board

A3512

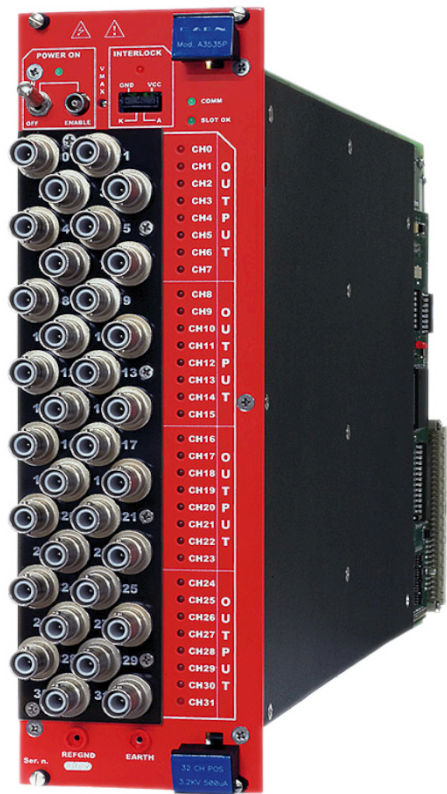


6 Channel 12 kV / 1 mA Power Supply Board

A3540



12 Channel 4 kV / 1 mA Power Supply Board



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