

A3602

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



Features



- EASY3000 Power Supply Module
- Magnetic field and radiation tolerant
- 3 floating (up to 100 V with respect to ground) $2 \div 7$ V / 5 A channels
- 35 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
- Sensing Lines for voltage drop compensation
- Interlock capability (per channel)
- 48 V Service local and remote on/off

Description

The CAEN **Mod. A3602** 3 Channel 7 V / 5 A Power Supply Board is developed for operation in magnetic field and moderate radioactive environment.

The board houses 3 floating (up to 100 V with respect to ground, reversible polarity) 7 V / 5 A / 35 W maximum output power channel.

The connector output voltage range is $2 \div 7$ V with 5 mV monitor resolution.

Channels are provided with Remote Sensing Lines to compensate for the voltage drop over the connection cables. If the output voltage differs from the programmed value by more than 3% of voltage full scale range, the channel is signalled to be either in Overvoltage and Undervoltage condition.

DB37 connector

FCI DCPV37S300GT type connector for Mod. A3602

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

Polarity

Floating (up to 100 V with respect to ground)

Output Voltage

2 ÷ 7 V (connector output)

Max. Output Current

5 A

Voltage Set/Monitor Resolution

5 mV

Current Set/Monitor Resolution

10 mA

VMAX hardware

2 ÷ 7 V

VMAX software

2 ÷ 7 V

VMAX software resolution

5 mV

Voltage Ripple

< 5 mVpp

Voltage Monitor vs. Output Voltage Accuracy

- typical: $\pm 0.3\% \pm 30 \text{ mV}$
- maximum: $\pm 0.3\%$ of reading $\pm 50 \text{ mV}$

Voltage Set vs. Output Voltage Accuracy

- typical: $\pm 0.3\% \pm 30 \text{ mV}$
- maximum: $\pm 0.3\%$ of setting $\pm 50 \text{ mV}$

Current Monitor vs. Output Current Accuracy

- typical: $\pm 1\% \pm 0.05 \text{ A}$
- maximum: $\pm 2\%$ of reading $\pm 0.1 \text{ A}$

Current Set vs. Output Current Accuracy

- typical: $\pm 1\% \pm 0.05 \text{ A}$
- maximum: $\pm 2\%$ of setting $\pm 0.1 \text{ A}$

Load Regulation

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

Output Power (per Channel)

35 W

Ordering Options

Code	Description	
WE3602XAAAAA	A3602 - EASY3000 L.V. channels 7 V/5 A/35 W floating up to 100V - Multipin Conn. (3 ch)	

Related Products

A3050



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

A3009B



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

A3016



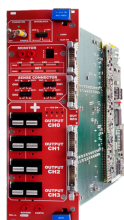
6 Channel 8 V / 16 A / 90 W Power Supply Board

A3100



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

A3025



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



This document, or parts thereof, may not be reproduced in any form or by any means without written permission from Caen S.p.A. Although every effort has been made to ensure the accuracy of information presented in this catalog, Caen S.p.A reserves the right to modify its products specifications without giving any notice; for up to date information please visit www.caen.it © Caen S.p.A - 2024

CAEN S.p.A.

Via Vetràia 11
55049 - Viareggio
Italy

Phone +39.0584.388.398

Fax +39.0584.388.959

info@caen.it

www.caen.it

CAEN GmbH

Brunnenweg 9
64331 Weiterstadt, Germany

Phone +49 (0)212.254.4077

Mobile +49 (0)151.16.548.484

info@caen-de.com

www.caen-de.com

CAEN Technologies, Inc.

1 Edgewater Street - Suite 101
Staten Island, NY 10305
USA

Phone +1.718.981.0401

Fax +1.718.556.9185

info@caentechnologies.com

www.caentechnologies.com

CAENspa India Private Limited

B205, BLDG42, B Wing,
Azad Nagar Sangam CHS,
Mhada Layout, Azad Nagar, Andheri West
Mumbai, Maharashtra 400053, India

info@caen-india.in

www.caen-india.in

