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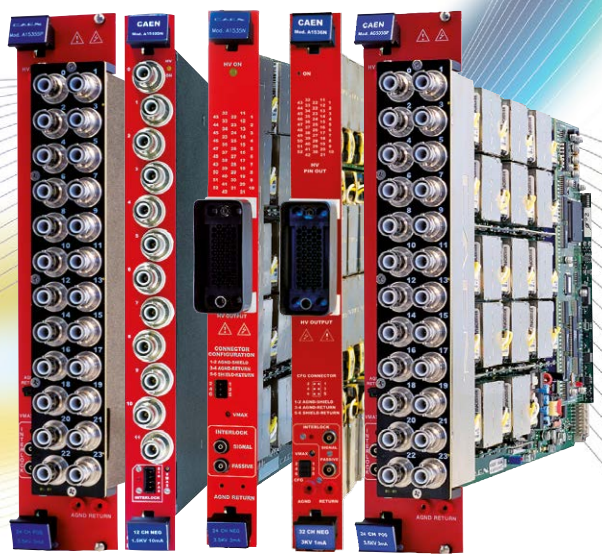
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A15xx - A18xx - AP932 - A7xxx

up to 4kV High Voltage Family

If you have a Photomulitplier, then we have a solution for you!

Features

- From 12 to 48 independently controllable HV channels
- Both Radiall Multipin or SHV connectors
- Available with either positive, negative or mixed polarity
- Up to 100 pA current set / monitor resolution
- Up to 5 mV voltage set / monitor resolution
- Programmable TRIP parameter
- Boards are available with voltage ripple < 5 mVpp
- Current generator operation in overcurrent condition
- Available output current up to 30 mA

Overview

This family of High Voltage power supplies includes single or double width boards housing up to 48 output channels. The boards are designed to provide voltage up to 4 kV, with up to 5 mV set and monitor resolution. All boards are provided with both current and voltage protections. If overcurrent occurs, the corresponding channel may be programmed to either turn off after a programmable trip time or to remain on and provide the maximum allowable current. Channels may be enabled or disabled through the Interlock logic. The voltage ramp rates may be set independently for each channel.

Customers may select the grounding design based on their needs. For example, a Common Floating Return grounding configuration is available for applications with more rigorous stability demands. Output channels are delivered through with either Radiall Multipin or SHV connectors.

Single Range | Dual Range | Featured Products

Model	Description	High Resolution	Common Floating Return	Common Ground	Individual Floating	Full Floating
A1538D	12 Channel 1.5 kV/10 mA (12W) Common Floating Return Board		●			
AG538D	12 Channel 1.5 kV/10 mA (12W) Common Ground Board			●		
A1536	12/24/32 Channel 3 kV/1 mA Common Floating Return Boards		●			
AG536	12/24/32 Channel 3 kV/1 mA Common Ground Boards			●		
AP932	1 Channel 3 kV/30mA Individual Floating Board (SHV conn)				●	
A1535	12/24 Channel 3.5 kV/3 mA (8 W) Common Floating Return Boards		●			
AG535	12/24 Channel 3.5 kV/3 mA (6 W) Common Ground Boards			●		

Single Range | **Dual Range** | Featured Products

Model	Description	High Resolution	Common Floating Return	Common Ground	Individual Floating	Full Floating
A1821	12 Channel 3 kV, 200/20 µA Common Ground Dual Range Board	●		●		
A1821H	12 Channel 3 kV, 200/10 µA Common Ground Dual Range Board	●		●		
A1833	12 Channel 3 kV/3mA, 4 kV/2 mA, 4 kV/0.2 mA Common Ground Dual Range Board			●		

Single Range | Dual Range | Featured Products

	Model	Description	High Resolution	Common Floating Return	Common Ground	Individual Floating	Full Floating
NEW	A7030-AG7030	General Purpose High Density Family		●	●		
NEW	A1515-A1515TG-A1515QG	Solution For Gas Electron Multiplier Detectors	●				●
NEW	A7236-AG7236-A7435-AG7435	General Purpose High Power and High Resolution Power Supplies	●	●	●		

In the following tables all the boards belonging to the family are listed together with an overview of the relevant parameters and of all the available Ordering Options.

Model Compare

Model	Max Output V (kV)	Max Output I (mA)	Vset Resolution (mV)	Imon Resolution (nA)	Ripple Typ. (mVpp)	Max Power per Channel (W)	# of channels
A1538D	1.5	10	50	200	< 20	12	12
AG538D	1.5	10	50	200	< 20	12	12
A1536	3	1	100	50	< 10	3	12/24/32
AG536	3	1	100	50	< 10	3	12/24/32
A1821	3	0.2/0.02	250	20/2	< 30	0.6	12
A1821H	3	0.2/0.01	250	20/1	< 30	0.6	12
A1833	3/4	3/2/0.2	250	200/20	< 30	9	12
AP932	3	30	100	1000	< 30	90	1
A1535	3.5	3	500	500	< 20	8	12/24
AG535	3.5	3	500	500	< 20	8	12/24
A7236	3.5	1.5	5	1	< 10	4	32
AG7236	3.5	1.5	5	1	< 10	4	32
A7435	3.5	3.5	5	5	< 15	9	24
AG7435	3.5	3.5	5	5	< 15	9	24
A7030	3	1	50	2	< 5	1.5	12/24/36/48
AG7030	3	1	50	2	< 5	1.5	12/24/36/48
A1515TG	1	1/0.1	20	1/0.1	< 10 (CM) < 5 (DM)	0.8	14
A1515QG	1	1/0.1	20	1/0.1	< 10 (CM) < 5 (DM)	0.8	16
A1515	1	1/0.1	20	1/0.1	< 10 (CM) < 5 (DM)	0.8	16

Ordering Options

S = Single width (5 TE wide)
D = Double width (10 TE wide)

Model	Code	Description	S/D
A1538D	WA1538DXAAAA	A1538DN - SYx527 negative H.V. -1.5 kV 10 mA 12W - SHV Connector common floating (12 ch)	S
	WA1538DXPAAA	A1538DP - SYx527 positive H.V. +1.5 kV 10 mA 12W - SHV Connector common floating (12 ch)	S
AG1538D	WAG538DXAAAA	AG538DN - SYx527 negative H.V. -1.5 kV 10 mA 12W - SHV Connector common ground (12 ch)	S
	WAG538DXPAAA	AG538DP - SYx527 positive H.V. +1.5 kV 10 mA 12W - SHV Connector common ground (12 ch)	S
A1536	WA1536DXAAAA	A1536DN - SYx527 H.V. channels -3 kV 1 mA - SHV Conn. common floating (12 ch)	S
	WA1536DXMAAA	A1536DM - SYx527 H.V. channels (6ch +3kV 1mA, 6ch -3kV 1mA) - SHV Conn. common floating	S
	WA1536DXPAAA	A1536DP - SYx527 H.V. channels +3 kV 1 mA - SHV Conn. common floating (12 ch)	S
	WA1536LXAAAA	A1536LN - SYx527 H.V. channels -3 kV 1 mA - Multipin Conn. common floating (24 ch)	S
	WA1536LXPAAA	A1536LP - SYx527 H.V. channels +3 kV 1 mA - Multipin Conn. common floating (24 ch)	S
	WA1536SVXAAA	A1536SVN - SYx527 H.V. channels -3 kV 800µA - SHV Conn. common floating (24 ch 10TE wide)	D
	WA1536SVXPAA	A1536SVP - SYx527 H.V. channels +3 kV 800µA - SHV Conn. common floating (24 ch 10TE wide)	D

Ordering Options - continued

Model	Code	Description	S/D
	WA1536SXAAAA	A1536SN - SYx527 H.V. channels -3 kV 1 mA - SHV Conn. common floating (24 ch 10TE wide)	D
	WA1536SXMAAA	A1536SM - SYx527 H.V. channels (12ch +3kV 1mA, 12ch -3kV 1mA) - SHV Conn. common floating (10TE)	D
	WA1536SXPAAA	A1536SP - SYx527 H.V. channels +3 kV 1 mA - SHV Conn. common floating (24 ch 10TE wide)	D
	WA1536VXAAAA	A1536VN - SYx527 H.V. channels -3 kV 800µA Multipin Conn. common floating (32 ch)	S
	WA1536VXPAAA	A1536VP - SYx527 H.V. channels +3 kV 800µA Multipin Conn. common floating (32 ch)	S
	WA1536XAAAAA	A1536N - SYx527 H.V. channels -3 kV 1 mA - Multipin Conn. common floating (32 ch)	S
	WA1536XPAAAA	A1536P - SYx527 H.V. channels +3 kV 1 mA - Multipin Conn. common floating (32 ch)	S
AG536	WAG536DXAAAA	AG536DN - SYx527 H.V. channels -3 kV 1 mA - SHV Conn. common ground (12 ch)	S
	WAG536DXMAAA	AG536DM - SYx527 H.V. channels (6ch +3kV 1mA, 6ch -3kV 1mA) - SHV Conn. common ground	S
	WAG536DXPAAA	AG536DP - SYx527 H.V. channels +3 kV 1 mA - SHV Conn. common ground (12 ch)	S
	WAG536LXAAAA	AG536LN - SYx527 H.V. channels -3 kV 1 mA - Multipin Conn. common ground (24 ch)	S
	WAG536LXPAAA	AG536LP - SYx527 H.V. channels +3 kV 1 mA - Multipin Conn. common ground (24 ch)	S
	WAG536SVXAAA	AG536SVN - SYx527 H.V. channels -3 kV 800µA - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG536SVXPAA	AG536SVP - SYx527 H.V. channels +3 kV 800µA - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG536SXAAAA	AG536SN - SYx527 H.V. channels -3 kV 1 mA - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG536SXMAAA	AG536SM - SYx527 H.V. channels (12ch +3kV 1mA, 12ch -3kV 1mA) - SHV Conn. common ground (10TE)	D
	WAG536SXPAAA	AG536SP - SYx527 H.V. channels +3 kV 1 mA - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG536VXAAAA	AG536VN -SYx527 H.V. channels -3 kV 800µA - Multipin Conn. common ground (32 ch)	S
	WAG536VXPAAA	AG536VP - SYx527 H.V. channels +3 kV 800µA - Multipin Conn. common ground (32 ch)	S
	WAG536XAAAAA	AG536N -SYx527 H.V. channels -3 kV 1 mA - Multipin Conn. common ground (32 ch)	S
	WAG536XPAAAA	AG536P - SYx527 H.V. channels +3 kV 1 mA - Multipin Conn. common ground (32 ch)	S
A1821	WA1821NAAAAA	A1821N - SYx527 H.V. channels -3 kV 200/20 µA(20/2nA res.) - SHV Conn. (12 ch)	S
	WA1821PAAAAA	A1821P - SYx527 H.V. channels +3 kV 200/20 µA(20/2nA res.) - SHV Conn. (12 ch)	S
A1821H	WA1821HAAAAA	A1821HP - SYx527 H.V. channels +3 kV 200/10 µA(20/1nA res.) - SHV Conn. (12 ch)	S
	WA1821HNAAAA	A1821HN - SYx527 H.V. channels -3 kV 200/10 µA(20/1nA res.) - SHV Conn. (12 ch)	S
A1833	WA1833NAAAAA	A1833N - SYx527 H.V. channels -3/4 kV 3/2 mA/200µA - SHV Conn. (12 ch)	S
	WA1833PAAAAA	A1833P - SYx527 H.V. channels +3/4 kV 3/2 mA/200µA - SHV Conn. (12 ch)	S
AP932	WAP932XAAAAA	AP932N - SYx527 H.V. channel -3 kV 30 mA - SHV Conn. individual floating (1 ch)	S
	WAP932XPAAAA	AP932P - SYx527 H.V. channel +3 kV 30 mA - SHV Conn. individual floating (1 ch)	S

Ordering Options - continued

S = Single width (5 TE wide)
D = Double width (10 TE wide)

Model	Code	Description	S/D
A1535	WA1535DXAAAA	A1535DN - SYx527 H.V. channels -3.5 kV 3 mA (8W) - SHV Conn. common floating (12 ch)	S
	WA1535DXMAAA	A1535DM - SYx527 H.V. channels (6ch +3.5kV 3mA, 6ch -3.5kV 3mA, 8W) - SHV Conn. common floating	S
	WA1535DXPAAA	A1535DP - SYx527 H.V. channels +3.5 kV 3 mA (8W) - SHV Conn. common floating (12 ch)	S
	WA1535SMXAAA	A1535SM - SYx527 H.V. channels (12ch +3.5kV 3mA, 12ch -3.5kV 3mA, 8W) - SHV common floating (10TE)	D
	WA1535SXAAAA	A1535SN - SYx527 H.V. channels -3.5 kV 3 mA (8W) - SHV Conn. common floating (24 ch 10TE wide)	D
	WA1535SXPAAA	A1535SP - SYx527 H.V. channels +3.5 kV 3 mA (8W) - SHV Conn. common floating (24 ch 10TE wide)	D
	WA1535XAAAAA	A1535N - SYx527 H.V. channels -3.5 kV 3 mA (8W) - Multi-pin Conn. common floating (24 ch)	S
	WA1535XPAAAA	A1535P - SYx527 H.V. channels +3.5 kV 3 mA (8W) - Multi-pin Conn. common floating (24 ch)	S
AG535	WAG535DXAAAA	AG535DN - SYx527 H.V. channels -3.5 kV 3 mA (6W) - SHV Conn. common ground (12 ch)	S
	WAG535DXMAAA	AG535DM - SYx527 H.V. channels (6ch +3.5kV 3mA, 6ch -3.5kV 3mA, 6W) - SHV Conn. common ground	S
	WAG535DXPAAA	AG535DP - SYx527 H.V. channels +3.5 kV 3 mA (6W) - SHV Conn. common ground (12 ch)	S
	WAG535SMXAAA	AG535SM - SYx527 H.V. channels (12ch +3.5kV 3mA, 12ch -3.5kV 3mA, 6W) - SHV common ground (10TE)	D
	WAG535SXAAAA	AG535SN - SYx527 H.V. channels -3.5 kV 3 mA (6W) - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG535SXPAAA	AG535SP - SYx527 H.V. channels +3.5 kV 3 mA (6W) - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG535XAAAAA	AG535N - SYx527 H.V. channels -3.5 kV 3 mA (6W) - Multi-pin Conn. common ground (24 ch)	S
	WAG535XPAAAA	AG535P - SYx527 H.V. channels +3.5 kV 3 mA (6W) - Multi-pin Conn. common ground (24 ch)	S
A7236	WA7236NXAAA3	A7236N - SYx527 H.V. channels -3.5kV 1.5mA (4W) - Multi-pin Conn. common floating (32 ch)	S
	WA7236PXAAA3	A7236P - SYx527 H.V. channels +3.5kV 1.5mA (4W) - Multi-pin Conn. common floating (32 ch)	S
AG7236	WAG7236NXAA3	AG7236N - SYx527 H.V. channels -3.5kV 1.5mA (4W) - Multipin Conn. common ground (32 ch)	S
	WAG7236PXAA3	AG7236P - SYx527 H.V. channels +3.5kV 1.5mA (4W) - Multipin Conn. common ground (32 ch)	S
A7435	WA7435NXAAA2	A7435N - SYx527 H.V. channels -3.5kV 3.5mA (9W) - Multi-pin Conn. common floating (24 ch)	S
	WA7435PXAAA2	A7435P - SYx527 H.V. channels +3.5kV 3.5mA (9W) - Multi-pin Conn. common floating (24 ch)	S
AG7435	WAG7435NXAA2	AG7435N - SYx527 H.V. channels -3.5kV 3.5mA (9W) - Multipin Conn. common ground (24 ch)	S
	WAG7435PXAA2	AG7435P - SYx527 H.V. channels +3.5kV 3.5mA (9W) - Multipin Conn. common ground (24 ch)	S
A7030	WA7030NXAAA4	A7030N - SYx527 H.V. channels -3 kV 1 mA (1.5 W) – Multi-pin Conn. common floating (48 ch)	S
	WA7030PXAAA4	A7030P - SYx527 H.V. channels +3 kV 1 mA (1.5 W) – Multi-pin Conn. common floating (48 ch)	S
	WA7030TNXAA3	A7030TN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) – Multipin Conn. common floating (36 ch)	S
	WA7030TPXAA3	A7030TP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) – Multipin Conn. common floating (36 ch)	S
	WA7030LNXAA2	A7030LN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) – Multipin Conn. common floating (24 ch)	S
	WA7030LPXAA2	A7030LP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) – Multipin Conn. common floating (24 ch)	S
	WA7030SNXAA2	A7030SN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) – SHV Conn. common floating (24 ch 10TE wide)	D
	WA7030SPXAA2	A7030SP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) – SHV Conn. common floating (24 ch 10TE wide)	D
	WA7030DNXAA1	A7030DN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) – SHV Conn. common floating (12 ch)	S
	WA7030DPXAA1	A7030DP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) – SHV Conn. common floating (12 ch)	S
AG7030	WAG7030NXAA4	AG7030N - SYx527 H.V. channels -3 kV 1 mA (1.5 W) - Multipin Conn. common ground (48 ch)	S
	WAG7030PXAA4	AG7030P - SYx527 H.V. channels +3 kV 1 mA (1.5 W) - Multipin Conn. common ground (48 ch)	S
	WAG7030TNXA3	AG7030TN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) - Multipin Conn. common ground (36 ch)	S
	WAG7030TPXA3	AG7030TP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) - Multipin Conn. common ground (36 ch)	S
	WAG7030LNXA2	AG7030LN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) - Multipin Conn. common ground (24 ch)	S
	WAG7030LPXA2	AG7030LP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) - Multipin Conn. common ground (24 ch)	S
	WAG7030SNXA2	AG7030SN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG7030SPXA2	AG7030SP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) - SHV Conn. common ground (24 ch 10TE wide)	D
	WAG7030DNXA1	AG7030DN - SYx527 H.V. channels -3 kV 1 mA (1.5 W) - SHV Conn. common ground (12 ch)	S
	WAG7030DPXA1	AG7030DP - SYx527 H.V. channels +3 kV 1 mA (1.5 W) - SHV Conn. common ground (12 ch)	S
A1515	WA1515XAAAAA	A1515 - 16 Channel Floating 1kV, 0.1/1 mA Board	S
	WA1515TGXAAA	A1515TG - 14 Channel Floating 1kV, 0.1/1 mA Board for Triple GEM detectors	S
	WA1515QGXAAA	A1515QG - 16 Channel Floating 1kV, 0.1/1 mA Board for Quadruple GEM detectors	S

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