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VHS 4 4 or 12 Channel HV Modules in VME

Description

This range of HV modules designed for VME applications offers versions with voltages up to 6kV & currents up to 16mA. With a choice of either a 4 or 12 channels per unit in either 1 slot or 2 slot respectively the choice is extensive. Each channel is fully controllable via the VME interface and the comprehensive protection circuitry includes safety loop, ramp down & optional INHIBIT per channel.



- All channels with voltage & current regulation
- Hardware current & voltage limit per module
- Each channel fully controllable via interface
- Low ripple & noise (<10mV_{pp} up to 4kV)
- All channels with common GND
- Flexible group & event handling

Selection Table

Part Number	Output Voltage	Output Current	Number of Channels
VHS 40-05x-156	0 - 500V	0 - 15mA	4 Channels
VHS C0-05x-106	0 - 500V	0 - 10mA	12 Channels
VHS 40-10x-805	0 - 1kV	0 - 8mA	4 Channels
VHS C0-10x-605	0 - 1kV	0 - 6mA	12 Channels
VHS 40-20x-405	0 - 2kV	0 - 4mA	4 Channels
VHS C0-20x-305	0 - 2kV	0 - 3mA	12 Channels
VHS 40-30x-305	0 - 3kV	0 - 3mA	4 Channels
VHS C0-30x-205	0 - 3kV	0 - 2mA	12 Channels
VHS 40-40x-205	0 - 4kV	0 - 2mA	4 Channels
VHS C0-40x-155	0 - 4kV	0 - 1.5mA	12 Channels
VHS 40-60x-105	0 - 6kV	0 - 1mA	4 Channels
VHS 40-xx	On Request	On Request	4 Channels
VHS C0-xx	On Request	On Request	12 Channels

Replace x in part number with P for positive or N for negative output polarity
 Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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VHS 4

4 or 12 Channel HV Modules in VME

Technical Data

Ripple & noise.....	< 10mV _{pp} (6kV: < 50mV _{pp})
Hardware limits (current).....	Potentiometer per module
Hardware limits (voltage).....	(I _{MAX} /V _{MAX} is the same for all channels)
Interface.....	VME interface
Voltage & current setting resolution.....	10 ⁻⁵ x V _{NOM} resp. I _{NOM}
Voltage & current measurement resolution.....	(10 ⁻⁵ to 10 ⁻⁶) x V _{NOM} resp. I _{NOM} noise free, dependant on integration time
Hardware current trip resolution.....	10 ⁻⁵ x I _{NOM}
Accuracy of voltage measurement.....	± (0.01% x V _o + 0.02% x V _{NOM}) for one year
Accuracy of current measurement.....	± (0.01% x I _o + 0.02% x I _{NOM}) for one year
Rate of voltage change.....	Up to 0.2 (option up to 0.75) x V _{NOM} /s
Safety loop (2 pole Lemo connector).....	5mA < I _s < 20mA: module "on" I _s < 0.5mA: module "off"
Power requirements V _{IN}	±12V (< 1.8A/5A) and +5V (<400mA)
HV connector.....	51 pin Redel HV connector (option SHV connectors)
Mechanical construction.....	4 channels up to 4kV in 6U x 4HP x 160mm (1 slot width) 4 channels up to 6kV in 6U x 8HP x 160mm (2 slot width) 12 channels in 6U x 8HP x 160mm (2 slot width)

Options Table

Code	Description
/VME 620.....	Unit placed in VME mainframe (see below for more information)
/VME 621.....	Unit placed in VME mainframe (see below for more information)
/VME 622.....	Unit placed in VME mainframe (see below for more information)

19" Mainframes

	Backplane	+5V	+12V	-12V
VME 620	VME/VME64	115A	46A	46A
VME 621	VME/VME64	230A	46A	46A
VME 622	VME/VME64	345A	46A	-