

VME

# VHS

## VERSATILE HIGH VOLTAGE MODULE WITH CG IN VME STANDARD

- ▶ 2 / 4 / 12 channel, 500 V - 20 kV versions
- ▶ Low ripple and noise
- ▶ Hardware voltage and current limits
- ▶ Voltage and current control per channel
- ▶ Programmable parameters (delayed trip, ramp etc.)
- ▶ Low voltage configurations possible (VMS modules)



The VHS modules of this series are multichannel high voltage power supplies in VME standard. With up to 12 channels each single channel has an independent voltage and current control. Offered in different configurations this module perfectly covers various kinds of applications such as detector supply, experimental setup or lab use. The module is made of high precision components such as 24 bit ADC and 20 bit DAC and provides comprehensive security features.

### SPECIFICATIONS

Ripple and noise	< 10 mV
Resolution voltage setting	$2 \cdot 10^{-6} \cdot V_{nom}$
Resolution current setting	$2 \cdot 10^{-6} \cdot I_{nom}$
Resolution voltage measurement	$2 \cdot 10^{-6} \cdot V_{nom}$
Resolution current measurement	$2 \cdot 10^{-6} \cdot I_{nom}$
Accuracy voltage measurement *	$\pm (0.01 \% \cdot V_{out} + 0.02 \% \cdot V_{nom})$
Accuracy current measurement ( $I_{out} > 20 \mu A$ ) *	$\pm (0.02 \% \cdot I_{out} + 0.02 \% \cdot I_{nom})$
Voltage ramp up / down	$1 \cdot 10^{-6} \cdot V_{nom} / s$ to $0.2 \cdot V_{nom} / s$
Protection	INHIBIT, Safety loop, overload, hardware V/I limits
HV connector	R51   SHV
Case	6U VME cassette, width 1 slot / 2 slot

\* All specifications guaranteed from  $1\% \cdot V_{nom} < V_{out} < V_{nom}$

### CONFIGURATIONS

MODEL	CHANNELS	OUTPUT VOLTAGE	OUTPUT CURRENT	SLOTS	HV CONNECTOR
VHS 40 05x	4	500 V	15 mA	1	SHV
VHS C0 05x	12	500 V	15 mA	2	SHV   R51
VHS 40 10x	4	1 kV	8 mA	1	SHV
VHS C0 10x	12	1 kV	8 mA	2	SHV   R51
VHS 40 20x	4	2 kV	4 mA	1	SHV
VHS C0 20x	12	2 kV	4 mA	2	SHV   R51
VHS 40 30x	4	3 kV	3 mA	1	SHV
VHS C0 30x	12	3 kV	3 mA	2	SHV   R51
VHS 40 40x	4	4 kV	2 mA	1	SHV
VHS C0 40x	12	4 kV	2 mA	2	SHV   R51
VHS 40 60x	4	6 kV	1 mA	1	SHV
VHS C0 60x	12	6 kV	1 mA	2	SHV   R51
VHS 20 80x	2	8 kV	1 mA	2	SHV
VHS 20 100x	2	10 kV	0.7 mA	2	SHV
VHS 20 200x	2	20 kV	0.4 mA	2	SHV

Other configurations on request!

### OPTIONS & ORDER INFO

OPTION	ORDER INFO	EXAMPLE
POLARITY	positive: <b>x = p</b> , negative: <b>x = n</b>	VHS 40 05p
REDEL connector	<b>R51</b>	
INHIBIT - down	<b>ID</b>	
INHIBIT - up	<b>IU</b>	
NEG. LOGIC INHIBIT	<b>N</b>	