

EHS STANDARD HV Modules with Common-GND (see page 36)

Channel	Type	V _{nom}	I _{nom}	V _{set} resolution	I _{set} resolution	Ripple max. V _{p-p}	V _{meas} / I _{meas}	Hardware Protection	
4	EHS 40100x	10000 V	0.5 mA	20 mV	1 nA	30 mV	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp I _{nom} depending on integration time	Hardware voltage and current limit per module Programmable current limitation and delayed trip parameter	
8	EHS 8080x	8000 V	1 mA	20 mV	2 nA	30 mV			
8	EHS 8060x	6000 V	1 mA	12 mV	2 nA	30 mV			
8	16	EHS n040x	4000 V	2 mA	10 mV	4 nA			10 mV
8	16	EHS n030x	3000 V	3 mA	10 mV	5 nA			10 mV
8	16	EHS n020x	2000 V	4 mA	5 mV	10 nA			10 mV
8	16	EHS n010x	1000 V	8 mA	2 mV	20 nA			10 mV
8	16	EHS n005x	500 V	15 mA	1 mV	30 nA			10 mV

16 Channel n = F, 8 Channel n = 8, polarity x = n or x = p

EHS STANDARD HV Modules with single Channel Floating-GND (see page 37)

Channel	Type	V _{nom}	I _{nom}	V _{set} resolution	I _{set} resolution	Ripple max. V _{p-p}	V _{meas} / I _{meas}	Hardware Protection	Potential difference	
4	EHS 46100x-F	10000 V	0.5 mA	400 mV	20 nA	30 mV	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp I _{nom} depending on integration time	Hardware voltage and current limit per module Programmable current limitation and delayed trip parameter	Standard 20 V Ch. to Ch. and to Crate-GND optional up to 200 V	
8	EHS 8680x-F	8000 V	1 mA	320 mV	40 nA	30 mV				
8	EHS 8660x-F	6000 V	1 mA	240 mV	40 nA	30 mV				
8	16	EHS n640x-F	4000 V	2 mA	160 mV	80 nA				10 mV
8	16	EHS n630x-F	3000 V	3 mA	120 mV	120 nA				10 mV
8	16	EHS n620x-F	2000 V	4 mA	80 mV	160 nA				10 mV
8	16	EHS n610x-F	1000 V	8 mA	40 mV	320 nA				10 mV
8	16	EHS n605x-F	500 V	15 mA	20 mV	600 nA				10 mV

16 Channel n = F, 8 Channel n = 8, polarity x = n or x = p

EHS HIGH PRECISION HV Modules with Common Floating-GND (see page 38)

Channel	Type	V _{nom}	I _{nom}	V _{set} resolution	I _{set} resolution	Ripple max. V _{p-p}	I _{meas} resolution	Hardware Protection	Potential difference
4	EHS 42100x	10000 V	0.5 mA	20 mV	1 nA	30 mV	I _{nom} > I _o > 20 µA 20 µ > I _o	Hardware voltage and current limit per module Programmable current limitation and delayed trip parameter	50 V between Common Floating-GND and System-GND
8	EHS 8280x	8000 V	1 mA	20 mV	2 nA	20 mV	1 nA 50 pA		
8	EHS 8260x	6000 V	1 mA	12 mV	2 nA	20 mV	1 nA 50 pA		
8	16	EHS n240x	4000 V	2 mA	10 mV	4 nA	5 mV 2 nA 50 pA		
8	16	EHS n230x	3000 V	3 mA	10 mV	5 nA	5 mV 3 nA 50 pA		
8	16	EHS n220x	2000 V	4 mA	5 mV	10 nA	5 mV 4 nA 50 pA		
8	16	EHS n210x	1000 V	8 mA	2 mV	20 nA	5 mV 5 nA 50 pA		
8	16	EHS n205x	500 V	10 mA	1 mV	30 nA	5 mV 8 nA 50 pA		

16 Channel n = F, 8 Channel n = 8, polarity x = n or x = p

EHS HIGH PRECISION HV Modules with single Channel Floating-GND (see page 39)

Channel	Type	V _{nom}	I _{nom}	V _{set} resolution	I _{set} resolution	Ripple max. V _{p-p}	I _{meas} resolution	Hardware Protection	Potential difference
4	EHS 42100x-F	10000 V	0.5 mA	20 mV	1 nA	30 mV	I _{nom} > I _o > 20 µA 20 µ > I _o	Hardware voltage and current limit per module Programmable current limitation and delayed trip parameter	Standard 20 V Ch. to Ch. and to Crate-GND opt. up to 2000 V
8	EHS 8280x-F	8000 V	1 mA	20 mV	2 nA	20 mV	1 nA 50 pA		
8	EHS 8260x-F	6000 V	1 mA	12 mV	2 nA	20 mV	1 nA 50 pA		
8	16	EHS n240x-F	4000 V	2 mA	10 mV	4 nA	5 mV 2 nA 50 pA		
8	16	EHS n230x-F	3000 V	3 mA	10 mV	5 nA	5 mV 3 nA 50 pA		
8	16	EHS n220x-F	2000 V	4 mA	5 mV	10 nA	5 mV 4 nA 50 pA		
8	16	EHS n210x-F	1000 V	8 mA	2 mV	20 nA	5 mV 5 nA 50 pA		
8	16	EHS n205x-F	500 V	10 mA	1 mV	30 nA	5 mV 8 nA 50 pA		

16 Channel n = F, 8 Channel n = 8, polarity x = n or x = p

EDS DISTRIBUTOR HV Modules with Common-GND (see page 40)

Cannel	Type	V _{nom}	I _{nom}	V _{set} resolution	Ripple max. V _{p-p}	I _{meas} resolution	V _{meas}	Hardware Protection
16 32	EDS n130x	3000 V	500 µA	10 mV	20 mV	100 nA	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp. I _{nom} depending on integration time	Hardware voltage and current limit per module programmable trip param.
16 32	EDS n025x	2500 V	500 µA	10 mV	20 mV	10 nA		
16 32	EDS n005x	500 V	1 mA	5 mV	10 mV	20 nA		

32 Channel n = 20, 16 Channel n = F, polarity x = n or x = p

EBS BIPOLAR DISTRIBUTOR HV Modules with Common Floating-GND (see page 41)

Cannel	Type	V _{nom}	I _{nom}	V _{set} resolution	Ripple max. V _{p-p}	I _{meas} resolution	V _{meas}	Hardware Protection
8 16	EBS n030	± 3000 V	500 µA	10 mV	20 mV	100 nA	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp. I _{nom}	Hardware voltage and current limit per module
8 16	EBS n005	± 500 V	1 mA	5 mV	10 mV	20 nA		

16 Channel n = F, 8 Channel n = 8

VHS STANDARD HV Modules with Common-GND and VME Interface (see page 42)

Cannel	Type	V _{nom}	I _{nom}	V _{set} resolution	I _{set} resolution	Ripple max. V _{p-p}	V _{meas} I _{meas}	Hardware Protection
2	VHS 20100x	10000 V	0.5 mA	20 mV	1 nA	30 mV	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp I _{nom} depending on integration time	Hardware voltage and current limit per module
4	VHS 4080x	8000 V	1 mA	20 mV	2 nA	30 mV		
4	VHS 4060x	6000 V	1 mA	12 mV	2 nA	30 mV		
4 12	VHS n040x	4000 V	2 mA	10 mV	4 nA	10 mV		
4 12	VHS n030x	3000 V	3 mA	10 mV	5 nA	10 mV		
4 12	VHS n020x	2000 V	4 mA	5 mV	10 nA	10 mV		
4 12	VHS n010x	1000 V	8 mA	2 mV	20 nA	10 mV		
4 12	VHS n005x	500 V	15 mA	1 mV	30 nA	10 mV		

12 Channel n = C, 4 Channel n = 4, polarity x = n or x = p


VDS DISTRIBUTOR HV Modules with Common Floating-GND and VME Interface (see page 43)

Cannel	Type	V _{nom}	I _{nom}	V _{set} resolution	Ripple max. V _{p-p}	I _{meas} resolution	V _{meas}	Hardware Protection
8 24	VDS n130x	3000 V	500 µA	10 mV	20 mV	100 nA	2 · 10 ⁻⁵ up to 10 ⁻⁶ · V _{nom} resp. I _{nom}	Hardware voltage and current limit per module
8 24	VDS n105x	500 V	1 mA	5 mV	10 mV	20 nA		

24 Channel n = 18, 8 Channel n = 8, polarity x = n or x = p

19" Crates with PS (see page 47 to 50)

iseg module SERIES	Type	CRATE (H-W-D)	SLOTS	POWER
EHS EDS EBS (6U HV-PS)	ECH 224	7U – ½ 19" desk top – 350 mm / with fans	4	300 W
	ECH 238	6U – 19" – 450 mm / without fan	8	1200 W
	Option UPS (ECH x3x)	Built-in uninterruptible power supply for at least 1 minute		
	Option 1.5U fan unit	Mountable under ECH 2 x 8 for use in racks without cooling		

iseg module SERIES	Type	CRATE (H-W-D)	SLOTS	POWER
EHS EDS EBS (6U HV-PS)	 Mpod Multichannel System	8U – 19" – 460 mm / built-in fan cooling Ethernet interface	10	bis 3 kW up to 3 kW
VHS VDS (6U VME HV-PS)	VME Crate Series 6000	9U – 19" – 500 mm / built-in fan cooling	21	bis 6 kW up to 6 kW
	VME mini Crate 195	5U – 19" – 485 mm / built-in fan cooling	9	bis 600 W up to 600 W