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EHS F 20 16 or 32 Channel Common GND HV Modules

Description

This range of 16 or 32 channel common GND modules offer a compact (6U x 8HP) solution for HV systems. The modules are simple to setup with front panel mounted potentiometer to set the voltage limit and current trip point for all channels simultaneously. The units offer high resolution for both setting & monitoring the V and I. All channels can be fully controlled via the potential free CAN interface. The EDCP protocol includes flexible group and event handling (e.g. For time delayed processing). Protection includes a safety loop and modules with integrated discharge relays to provide a fast ramp down of the voltage at the load. Up to 8 units can be fitted into either the ECH 228 or 238 19" crate (voltage between module GND & PE = 25V).



- Measurement & setting values in floating points single precision
- Hardware current trip and voltage limit per module
- Other voltage & current combinations on request
- Each channel controllable via interface
- 16 or 32 channels with common GND
- Low ripple & noise (<10mV_{p-p})
- Very compact (6U x 8HP)

Selection Table

Part	Output	Output	Number of
Number	Voltage	Current	Channels
EHS F 005x-105	0 - 500V	0 - 1mA	16 Channels
EHS F4 005x-105	0 - 500V	0 - 1mA (with discharge relay)	16 Channels
EHS 20 005x-105	0 - 500V	0 - 1mA	32 Channels
EHS 204 005x-105	0 - 500V	0 - 1mA (with discharge relay)	32 Channels
EHS F 030x-504	0 - 3kV	0 - 500μΑ	16 Channels
EHS F4 030x-504	0 - 3kV	0 - 500μΑ (with discharge relay)	16 Channels
EHS 20 030x-504	0 - 3kV	0 - 500μΑ	32 Channels
EHS 204 030x-504	0 - 3kV	0 - 500μΑ (with discharge relay)	32 Channels
EHS F Oxx	On Request	On Request	16 Channels
EHS 20 Oxx	On Request	On Request	32 Channels





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Technical Data

Ripple & noise.....< 10mV_{pp}

Output current trip......Potentiometer per module (I_{trip} is the same for all channels)
Output voltage limit.....Potentiometer per module (V_{max} is the same for all channels)

INHIBIT.....Per channel (TTL Low) Interface (potential free)

Voltage & current setting resolution......10⁵ x V_{NOM} resp. I_{NOM}

Voltage & current measurement resolution......(10⁵ to 10⁶) x V_{NoM}resp. I_{NoM}noise free, dependant on integration time

Accuracy of voltage measurement..... \pm (0.01% x V_o + 0.02% x V_{NoM}) for one year Accuracy of current measurement..... \pm (0.1% x I₀ + 0.4% x I_{NOM}) for one year Rate of voltage change......Up to 0.2 (option up to 0.75) x V_{NOM}/s

Power requirements.....+24V (< 1A/2A) and +5V (<200/400mA)

Mechanical construction......16/32 channels in 6U = 8HP cassette (40.3mm)

Options Table

Code	Description	
	Unit placed in 8 slot mainframe (see below for more information)Unit placed in 8 slot mainframe (see below for more information)	

19" Mainframes

Туре	Slots	Power	Dimensions (H x W x D)
ECH 228	8	700W	6U - ½ 19" - 450mm
ECH 238	8	700W	6U - 19" - 450mm





Mpod

ECH 228