

EDS

DISTRIBUTOR HV MODULE WITH COMMON FLOATING GROUND

SYSTEMS



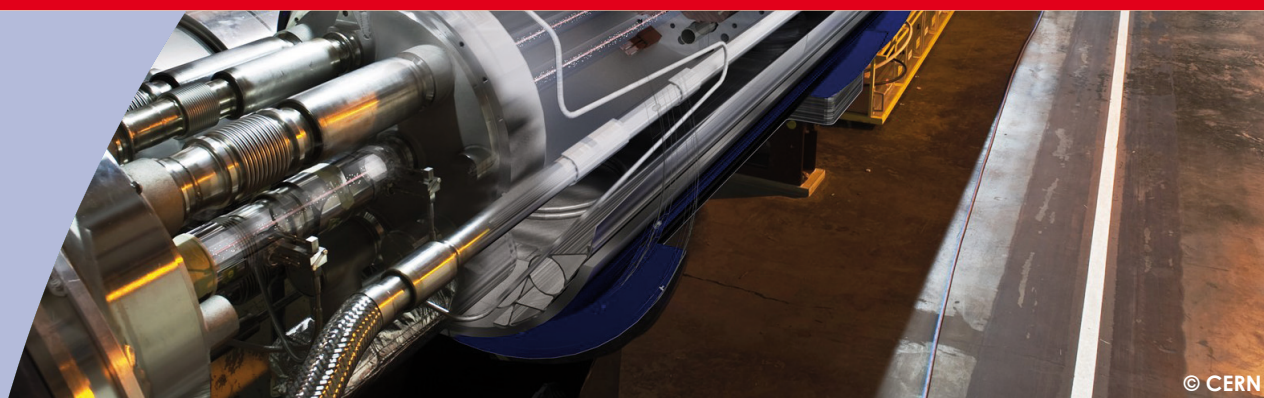
- ▶ 16 / 24 / 32 / 48 channel, 500 V / 3 kV versions
- ▶ Low Cost versions with reduced current measurement accuracy
- ▶ very low ripple and noise
- ▶ hardware voltage and current limit
- ▶ voltage control and current measurement per channel
- ▶ programmable parameters (delayed trip etc.)

The cost effective EDS distribution modules are multichannel high voltage power supplies in MMS-system (Eurocard format). It is available as Standard version and as Low Cost version with reduced resolution and precision of current measurement. The EDS comes with common floating ground to reduce voltage noise level. With up to 48 channels each single channel has an independent voltage control. The module is made of high precision components such as 24 bit ADC and 20 bit DAC and provides comprehensive security features.

Cal Power

Via Acquanera, 29
tel. 031.526.566 (r.a.)
info@calpower.it

22100 COMO
fax 031.507.984
www.calspower.it



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SPECIFICATIONS / SPEZIFIKATION

	EDS STANDARD	EDS LOW COST
Polarity	factory fixed, positive or negative	
Ripple and noise	< 5 mV	
Temperature coefficient	30 ppm / K	
Resolution voltage setting	$1 \cdot 10^{-5} \cdot V_{nom}$	
Resolution voltage measurement	$1 \cdot 10^{-5} \cdot V_{nom}$	
Resolution current measurement	$1 \cdot 10^{-4} \cdot I_{nom}$	$5 \cdot 10^{-4} \cdot I_{nom}$
Accuracy voltage measurement *	$\pm (0.01 \% \cdot V_{out} + 0.02 \% \cdot V_{nom})$	
Accuracy current measurement *	$\pm (0.1 \% \cdot I_{out} + 0.1 \% \cdot I_{nom})$	$\pm (1 \% \cdot I_{out} + 1 \% \cdot I_{nom})$
Rate of voltage change	up to $0.2 \cdot V_{nom} / s$ opt. up to $0.75 \cdot V_{nom} / s$	
HV connector	R51 SHV I52	
Case	6U cassette, width 8 HP	
Protection	Safety loop	
*) All specifications guaranteed from $1 \% \cdot V_{nom} < V_{out} < V_{nom}$		

CONFIGURATIONS / KONFIGURATIONEN

MODEL	CHANNELS	OUTPUT VOLTAGE	OUTPUT CURRENT
EDS Fy 05x	16	500 V	1 mA
EDS 18y 05x	24	500 V	1 mA
EDS 20y 05x	32	500 V	1 mA
EDS 30y 05x	48	500 V	1 mA
EDS Fy 30x	16	3 kV	500 μ A
EDS 18y 30x	24	3 kV	500 μ A
EDS 20y 30x	32	3 kV	500 μ A
EDS 30y 30x	48	3 kV	500 μ A

Other configurations on request! Andere Konfigurationen auf Anfrage.

ORDER & OPTIONS / BESTELLINFORMATIONEN

OPTION	ORDER INFO	EXAMPLE
POLARITY	positive: x = p , negative: x = n	EDS F1 05 p
LOW COST	standard: y = 1 , low cost: y = 3	EDS F3 05 p

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Via Acquanera, 29 22100 COMO
tel. 031.526.566 (r.a.) fax 031.507.984
info@calpower.it www.caltower.it



iseg Spezialelektronik GmbH

Bautzner Landstr. 23
01454 Radeberg
Germany

phone: +49 351 26996-0
Fax: +49 351 26996-21
e-mail: info@iseg-hv.com

iseg is a manufacturer of very precise and stable High Voltage Power Supplies with focus on physics and industrial applications. The product portfolio includes AC/ DC, DC/DC and modular High Voltage systems. The company was founded in 1995. Continuous growth and innovation strengthened the company's market position. iseg is well known for the development of outstanding custom specific solutions for various special applications.