

EDS

DISTRIBUTOR HV MODULE WITH COMMON FLOATING GROUND



- ▶ 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.





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 • 10 ^{.5} • V _{nom}			
Resolution voltage measurement	1 • 10 ⁻⁵ • V _{nom}			
Resolution current measurement	1 • 10 ⁻⁴ • I _{nom}	5 • 10 ⁻⁴ • I _{nom}		
Accuracy voltage measurement *	± (0.01 % • V _{out} + 0.02 °	% • V _{nom})		
Accuracy current measurement \pm (0.1 % • I _{out} + 0.1 % • I _{nom})	± (1 % • I _{out} + 1 % • I _{nom})		
Rate of voltage change	up to 0.2 • V _{nom} / s opt. up to	0.75 • V _{nom} / s		
HV connector	R51 SHV I52			
Case	6U cassette, width 8	HP		
Protection	Safety loop			
*) All specifications guaranteed from 1% · 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 μΑ		
EDS 18y 30x	24	3 kV	500 μΑ		
EDS 20y 30x	32	3 kV	500 μΑ		
EDS 30y 30x	48	3 kV	500 μΑ		
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 F 3 05p		



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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 delevopment of outstanding custom specific solutions for various special applications.

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