

## EBS BIPOLAR 4 QUADRANT HIGH VOLTAGE MODULE WITH CFG



- 4 / 12 / 24 channel, 500 V / 3 kV and custom versions
- ▶ 4-quadrant, usable as bipolar current sink and source
- perfect for electron optical systems and capacitive loads
- low ripple and noise
- hardware voltage and current limit
- voltage control and current measurement per channel
- programmable parameters

The bipolar EBS distribution modules are multichannel high voltage power supplies in MMS system (Eurocard format) with full 4-quadrant capabilities. The EBS can be used as bipolar current sink and source, which perfectly covers requirements of electron optical systems or capacitive loads. The EBS is built in common floating ground principle to reduce voltage noise level. With up to 24 channels each single channel has an independent voltage control up to 3 kV channel-voltage-difference. The EBS configuration of output voltage and current can be customized on request. The module is made of high precision components such as 24 bit ADC and 20 bit DAC and provides comprehensive security features. The EBS 3U is specifically developed for MMC crate ECH 12A. There it can be combined with MMC 3U modules for special purpose like ion beam applications.



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SPECIFICATIONS / SPEZIFII	SPECIFICATIONS / SPEZIFIKATION				
Polarity	bipolar 4 quadrant				
Ripple and noise	< 10 mV				
Temperature coefficient	30 ppm / K				
Resolution voltage setting	1 • 10 <sup>-5</sup> • V <sub>nom</sub>				
Resolution voltage measurement	2 • 10 <sup>-5</sup> • V <sub>nom</sub>				
Resolution current measurement	2 • 10 <sup>-4</sup> • I <sub>nom</sub>				
Accuracy voltage measurement *	± (0.01 % • V <sub>out</sub> + 0.02 % • V <sub>nom</sub> )				
Accuracy current measurement *	± (0.1 % • I <sub>out</sub> + 0.4 % • I <sub>nom</sub> )				
Rate of voltage change	up to 0.2 • V <sub>nom</sub> / s   opt. up to 0.75 • V <sub>nom</sub> / s				
HV connector	R51  SHV				
Case	3 / 6U cassette, width 8 HP				
Protection	Safety loop				
$^{\circ}$ ) All specifications guaranteed from 1% $\cdot$ V $_{\rm nom}$ < V $_{\rm out}$ < V $_{\rm nom}$					

	CONFIGURATIONS / KONFIGURATIONEN							
	MODEL	CHANNELS	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE AND NOISE	HEIGHT		
	EBS 4 005	4	± 500 V	± 1 mA	10 mV	3U		
	EBS C 005	12	± 500 V	± 1 mA	10 mV	6U		
	EBS 18 005	24	± 500 V	± 1 mA	10 mV	6U		
	EBS C 030	12	± 3 kV	± 500 μA	20 mV	6U		
	EBS 18 030	24	± 3 kV	± 500 μA	20 mV	6U		
Other configurations on request! Andere Konfigurationen auf Anfrage.								



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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
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