

NHS

VERSATILE HIGH PRECISION HIGH VOLTAGE MODULE IN NIM STANDARD



- ▶ 6 channel, 100 V - 6 kV versions
- ▶ very low ripple and noise
- ▶ front panel control with 1,44" TFT display
- ▶ hardware voltage and current limits
- ▶ voltage control and current measurement per channel
- ▶ USB, CAN interfaces
- ▶ programmable parameters (delayed trip etc.)
- ▶ option VCT: voltage correction by temperature

The iseg NHS modules of this series are multi channel high voltage power supplies in 1/12 NIM standard cassette format. With up to 6 channels each single channel has an independent voltage and current control. By offering different configurations and options this module perfectly covers various types of applications such as detector supply, experimental setup or lab use. Several NHS modules can be daisy-chained by CAN and controlled with a single USB connection or by iseg iCS system. The module is made of best components such as 24 bit ADC and 20 bit DAC, an excellent front panel control with TFT display plus comprehensive security features.

Cal Power

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SPECIFICATIONS / SPEZIFIKATION

	NHS STANDARD	NHS HIGH PRECISION
Polarity	factory fixed, positive or negative	
Ripple and noise	< 10 mV	< 5 mV
Temperature coefficient	50 ppm / K	30 ppm/K opt. 10 ppm/K (TC)
Resolution voltage setting	$2 \cdot 10^{-6} \cdot V_{nom}$	
Resolution current setting	$2 \cdot 10^{-6} \cdot I_{nom}$	
Resolution voltage measurement	$2 \cdot 10^{-6} \cdot V_{nom}$	
Resolution current measurement - full range	$2 \cdot 10^{-6} \cdot I_{nom}$	$1 \cdot 10^{-6} \cdot I_{nom}$
Resolution current measurement - 2nd range	n/a	50 pA [$I_{out} < 20\mu A$]
Accuracy voltage measurement^{*)}	$\pm (0.01 \% \cdot V_{out} + 0.01 \% \cdot V_{nom})$	
Accuracy current measurement^{*)} - full range	$\pm (0.01 \% \cdot I_{out} + 0.02 \% \cdot I_{nom})$	
Accuracy current measurement^{*)} - 2nd range	n/a	$\pm (0.1 \% \cdot I_{out} + 4 nA)$
Rate of voltage change	up to $0.2 \cdot V_{nom} / s$ opt. up to $0.75 \cdot V_{nom} / s$	
HV connector	SHV BNC	
Case	1/12 NIM cassette	
Protection	INHIBIT, Safety loop, short circuit, overload, hardware V/I limits	

^{*)}All specifications guaranteed from $1\% \cdot V_{nom} < V_{out} < V_{nom}$

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ORDER & OPTIONS / BESTELLINFORMATIONEN

OPTION	ORDER INFO	EXAMPLE
POLARITY	pos.: x = p, neg.: x = n	NHS 60 10p
	mix: x = x	NHS 60 10x
STANDARD	y=0	NHS 60 10p
HIGH PRECISION	y=2	NHS 62 10p
LOWER TEMP. COEFFICIENT	TC	
LOWER OUTPUT CURRENT	L (100 μA , high precision version only)	
INHIBIT - DOWN / UP	ID / IU	
VOLT. CORRECTION BY TEMP.	VCT	

CONFIGURATIONS / KONFIGURATIONEN

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	HV CONNECTOR
NHS 6y 01x	100 V	10 mA	BNC
NHS 6y 05x	500 V	15 mA 10 mA [High Precision]	SHV opt. BNC
NHS 6y 10x	1 kV	8 mA	SHV
NHS 6y 20x	2 kV	4 mA	SHV
NHS 6y 30x	3 kV	3 mA	SHV
NHS 6y 40x	4 kV	2 mA	SHV
NHS 6y 60x	6 kV	1 mA	SHV

Other configurations on request! Andere Konfigurationen auf Anfrage.



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iseq 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. iseq is well known for the development of outstanding custom specific solutions for various special applications.