

Specifications

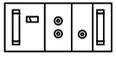
Architecture	Linear regulated bipolar current generator with continuous sweep through zero Bipolar transistor technology Based on SMD-technology Modular operation from batteries or mains
Current/Voltage range	Max. current up to 5 A Current/Voltage pairs individually as required
Current outputs	Floating or grounded (adjustable) Short circuit and overvoltage protected
Output connectors	Shielded twinaxial socket

Current control

Analog Control	With ± 10 V control voltage. High ohmic input (5,1 M Ω) for quasi-galvanic isolation BNC socket
Trigger	TTL compatible trigger for switching off or on the current User defined trigger logics Priority over manual and analog setting Opto-coupler BNC socket

Characteristics

Current stability and reproducibility	$< 10^{-5}$ under laboratory conditions with 1° temperature stability (< 10 ppm/K)
Current noise	The mains' frequency and its harmonics on the source current are suppressed to a level below $10^{-5} \times I_{max}$
Response time	Adjustable between 50 μ s and 100 ms
Case	Compact electronic case
Supply	External batteries or optional internal mains voltage supply
Cooling	Air cooling



Bipolar Current Sources SMD Series



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Options

Manual Control	10-turn precision-potentiometer for manual setting of the current
Digital Display	LCD current display (3.5 digits)
Power Supply Unit	Mains voltage supply (in addition to battery connections)

Typical Applications

High precision magnetic field control, magnetic traps, atom chips,
NMR, SQUID, mobile systems, ultra low noise applications

Further Information

For further technical information, application examples, diagrams
and for customisation of the current sources please contact:

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