## 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 MΩ) 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°C temperature stability
(< 10ppm/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 µs and 100 ms

**Case**
Compact electronic case

**Supply**
External batteries or optional internal mains voltage supply

**Cooling**
Air cooling
Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>Manual control</td>
<td>10-turn precision-potentiometer for manual setting of the current</td>
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<tr>
<td>Digital display</td>
<td>LCD current display (3.5 digits)</td>
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<tr>
<td>Power supply unit</td>
<td>Mains voltage supply (in addition to battery connections)</td>
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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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