Testing current instrument transformers requires a high current power supply ready to regulate currents in a wide from A to kA. The 5260 high current source is specially designed to meet this stringent requirement. Based on the state-of-the-art frequency converter technology it offers flexibility and ease of use. Fine adjustment of the testing current in 0.01% steps allows testing according IEC and ANSI standards.

The 5260 high current source is available in three models with the current ranges 2kA, 6kA and 10kA. Each model consists of a control cabinet, a high current transformer and remote control unit.

Based on the frequency converter topology the 5260 high current source offers flexibility in regards to output currents, operating frequency, speed and distortion free signals.

Several safety features are integrated which prevents the user and the system from damages.

**FEATURES AND BENEFITS**

- Specially designed for current instrument transformer (CT) testing
- AC High Current Source up to 10'000 A
- Three operating ranges cover a wide operating range
- Distortion free output due to frequency converter topology
- Testing of CTs according IEC60044, ANSI C57.13, and other international standards
- 50 and 60 Hz independent of the mains frequency
- Intuitive user interface through touch panel
- Safe operation with emergency stop, interlock feature and temperature monitoring

**APPLICATIONS**

Accuracy testing (ratio and phase error) of current transformers for:

- CT manufacturers
- Calibration and reference laboratories
- Onsite calibration where rated current is required
MODERN TECHNOLOGY

The design of the 5260 is based on a frequency converter voltage source. Compared to systems with a standard regulating transformer, the frequency converter offers more features to the user in a smaller size.

Fine adjustment of the output current is possible to meet the testing requirements. Steps of 0.1% of rated current allow accurate setting and fine adjustment of the output current. The 5260 High Current Source outputs a clean sine wave signal (THD < 5%) independent of mains distortions. The frequency of the output current can be set by the user to either 50 or 60 Hz independent of the mains frequency. This allows the customer to use the same source for testing current transformers for countries with 50 and 60 Hz line frequency.

SAFE AND SECURE OPERATION

Several features are included to guarantee safe operation of the system. The emergency stop is placed aside the remote control for easy access. It allows immediate switch off of the system in case of an emergency. Additionally the 5260 can be integrated in the safety interlock system of the test field. For example when the door interlock is opened the output is automatically switched off.

Optional red and green warning lamps can be connected for additional warnings during operations.

Several temperature sensors monitor the temperature of all important parts (control cabinet, high current transformer). In case of overheating the system is switched off immediately. Also the temperature of the connection plate is monitored and warns the user from possible dangerous temperatures.

HIGH CURRENT TROLLEY 5260/TR

The 5260 high current source is usually part of an instrument transformer measuring system which includes accuracy test set, burdens and standard instrument transformers (all available from Tettex). Connection between the high current source, the standard current transformer (such as Tettex 476x) and the test object plays a critical role. The optional 5260/TR trolley mounted with wheels offers a convenient and flexible solution to connect to your test objects.

The layout of the high current carrying components is optimized for minimum losses and highest accuracy. With a special arrangement of the copper bars the influence of the high current on the measurement accuracy is minimized. Easy reconfiguration of the test setup is possible through two selector switches.

TOUCH PANEL USER INTERFACE

The system control consists of a remote control unit with touch screen. It can be easily integrated in an existing control desk for easy and remote operation of the system.

The output current, compensation stage and frequency can be set directly from the touch panel. Errors as well as safety and warning message are shown on the 8.4” touch panel.
### TECHNICAL SPECIFICATIONS (PRELIMINARY)

<table>
<thead>
<tr>
<th>Model</th>
<th>5260 / 2 /10</th>
<th>5260 / 6 /30</th>
<th>5260 / 10 /100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. output current</td>
<td>2'000 A</td>
<td>6'000 A</td>
<td>10'000 A</td>
</tr>
<tr>
<td>Max. output power</td>
<td>10 kVA</td>
<td>30 kVA</td>
<td>100 kVA</td>
</tr>
<tr>
<td>Frequency (user selectable)</td>
<td>50 and 60 H (16 2/3 Hz on request)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Harmonic Distortion (THD)</td>
<td>&lt; 5 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duty cycle</td>
<td>10 min ON / 15 min OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating ranges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>6 … 2'000 A (max. 5 V)</td>
<td>6 … 6'000 A (max. 5 V)</td>
<td>10 … 10'000 A (max. 10V)</td>
</tr>
<tr>
<td>Medium</td>
<td>3 … 1'000 A (max. 10 V)</td>
<td>3 … 3'000 A (max. 10 V)</td>
<td>5 … 10'000 A (max. 20 V)</td>
</tr>
<tr>
<td>Low</td>
<td>1 … 15 A (max. 200 V)</td>
<td>1 … 15 A (max. 200 V)</td>
<td>1 … 15 A (max. 200 V)</td>
</tr>
<tr>
<td>Input</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mains voltage</td>
<td>400 V, 3 phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mains current</td>
<td>62 A</td>
<td>64 A</td>
<td>126 A</td>
</tr>
<tr>
<td>System Power Consumption</td>
<td>15 kVA</td>
<td>40 kVA</td>
<td>120 kVA</td>
</tr>
<tr>
<td>Dimension and Weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Cabinet (l x w x h)</td>
<td>800 x 800 x 1800 mm approx. 250 kg</td>
<td>800 x 800 x 1800 mm approx. 300 kg</td>
<td>800 x 800 x 1800 mm approx. 350 kg</td>
</tr>
<tr>
<td>High Current Transformer (l x w x h)</td>
<td>470 x 330 x 460 mm approx. 150 kg</td>
<td>550 x 410 x 740 mm approx. 300 kg</td>
<td>630 x 550 x 950 mm approx. 600 kg</td>
</tr>
<tr>
<td>Remote Control Unit (l x w x h)</td>
<td>280 x 360 x 245 mm approx. 10 kg</td>
<td>280 x 360 x 245 mm approx. 10 kg</td>
<td>280 x 360 x 245 mm approx. 10 kg</td>
</tr>
</tbody>
</table>

1. limited current and power
2. other input voltages on request

### SCOPE OF SUPPLY

5260/xx/xxx  
Control cabinet, high current transformer, remote control unit, operating manual

### OPTIONS

- **5260/TR**: trolley for mounting high current transformer and 476x comparators
- **5260/IV**: change of input voltage from standard 400V to other mains voltage
- **5260/CAB**: high current cables, 120mm², length 2m, max. 500 A per cable
A COMPLETE PORTFOLIO FOR TRANSFORMER TESTING

2767
Automatic Instrument Transformer Test Set
Highly accurate test set for accuracy measurements of voltage and current instrument transformers according IEC60044, ANSI C57.13 and others.

3691
Electronic Current Burden
Programmable electronic current burden according IEC, ANSI or user defined values. Up to a rated power of 75 VA with 1% accuracy. Can be extended to 200 VA with external burden Tettex 3692.

4860
Standard Electronic Voltage Divider
Electronic voltage divider used as a variable comparison standard (replacement of inductive nominal voltage transformers). Voltage Ranges from 1 kV to 800 kV or higher.

3695
Electronic Voltage Burden
Programmable electronic voltage burden according IEC, ANSI or user defined values. Up to a rated power of 75 VA with 1% accuracy. Can be extended to 400 VA with external burden Tettex 3697.

5270
High Voltage Power Supplies
As part of the Haefely Test AG, Tettex can offer a variety of high voltage sources.

4761 / 64
Current Comparators
Electronically compensated current comparator with an accuracy of 10 ppm and 0.05 min. User settable ratios of 1 / 5 A to 1000 or 5000 A.

HAEFELY HIPOTRONICS has a policy of continuous product improvement. Therefore we reserve the right to change design and specification without notice.