The powerful characterization software and integrated source and measurements units (SMUs) of the Precision Current-Voltage Analyzer series make it much quicker and simpler to obtain accurate IV characterization, than it would by using conventional power supplies, multi meters, curve tracers and bench-top SMUs.

The EasyEXPERT group+ software supports all the characterization tasks such as measurement setup and execution, data analysis, data management and protection and so on, using the graphical intuitive user interface and mouse/keyboard operation. It’s powerful capabilities are available for multiple users online or offline.

The Precision Current-Voltage Analyzer Series provides a wide selection of IV analyzers suitable to your specific measurement needs. They range from an economic model to the most advanced analyzer capable of supporting cutting-edge applications.

**Economic IV Analyzer**

The entry IV analyzer is available for a range of IV characterizations.
- An SMU provides versatility of 4-quadrant precision voltage/current source and voltage/current measurement.
- A combination of multiple SMUs (up to 8) quickly enables IV curve measurement and analysis without programming.
- EasyEXPERT group+ is available on your PC.

**Precision IV Analyzer**

The high performance IV analyzer with current measurement capability as low as 0.1 fA along with SMU scalability is available for advanced IV characterization.
- Integration of multiple SMUs quickly enables IV curve measurement down to 0.1 fA and analysis without programming.
- Scalability and flexibility of configurable SMU modules up to 8 slots.
- EasyEXPERT group+ is available on your PC.

**Advanced Device Analyzer**

The all in one analyzer supporting IV, CV, pulse/dynamic IV and more. Designed for all-round characterization from basic to cutting-edge applications.
- Integration of SMUs, C meter (CMU), pulse/dynamic IV module (WGFMU) and so on quickly enables a range of characterizations from IV to CV, pulse/dynamic IV and more on single box.
- Scalability and flexibility of configurable modules up to 10 slots.
- EasyEXPERT group+ is available either on a mainframe built-in PC with 15 inch touch screen or on your PC.
### Key specifications and features

<table>
<thead>
<tr>
<th></th>
<th>Economic IV Analyzer</th>
<th>Precision IV Analyzer</th>
<th>Advanced Device Analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Number</strong></td>
<td>B2901A B2902A</td>
<td>E5262A E5263A E5260A</td>
<td>E5270B B1500A B1505A</td>
</tr>
<tr>
<td><strong>Current-voltage measurement features</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. output</td>
<td>210 V/3 A (10.5 A pulse)</td>
<td>210 V/3 A (10.5 A pulse)</td>
<td>100 V/0.2 A 200 V/1 A 200 V/1 A 200 V/1 A 10 kW/1500 A</td>
</tr>
<tr>
<td>Min. measurement resolution</td>
<td>100 fA/0.1 µV</td>
<td>10 fA/0.1 µV</td>
<td>5 pA/100 µV</td>
</tr>
<tr>
<td>No. of SMU channels</td>
<td>1 to 8</td>
<td>1 to 8</td>
<td>2</td>
</tr>
<tr>
<td>SMU channel upgradability</td>
<td>Instrument stacking</td>
<td>Instrument stacking</td>
<td>Not available</td>
</tr>
<tr>
<td>Output connector type</td>
<td>Banana¹</td>
<td>Banana¹</td>
<td>Active Guard Shielded Triax</td>
</tr>
<tr>
<td>IV spot/sweep</td>
<td>DC/Pulse</td>
<td>DC/Pulse</td>
<td>DC/Pulse</td>
</tr>
<tr>
<td><strong>Advanced measurement features</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitance Measurement (C-V, C-t, C-f, 1 KHz, 5 MHz)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ultra fast pulsed/transient IV (from 100 ns, 200 MSa/s, 10 V)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Software features</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keyboard and mouse operation</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Intuitive GUI</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automated graph capability</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Data exporting to Excel</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in database for measurement setup and data</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Personal analyzer environment on multiple PCs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>EasyEXPERT controller</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Built-in PC</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>External PC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1. Banana to Triaxial adapter is available

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