Electric Vehicle Tester
Regenerative Series

- Programmable High Current and Voltage Source and Sink
- For Automotive Test Bench Lines and other hardware-in-the-loop applications
- Emulates Load Profiles of any xEV
- Available DC Outputs: 600/800/1000 Volts
- Expandable to 1500 A or 400 kW
- High Dynamic IGBT Power Circuits
- Sinusoidal Mains Regeneration
- Value: Modular and scalable system and optional components
- Advanced Thermal Management Allows Side-By-Side Placement
- Cabinet conveniently sized to fit through standard doors
- Large read-outs, lights and push-buttons for easy and safe operation
- Controlled by Battery Manager or CAN-Bus Supervising

* The images may reflect optional equipment and are subject to change without notice.

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Digatron
power electronics
TECHNICAL DATA

<table>
<thead>
<tr>
<th>EVT 300-600</th>
<th>EVT 300-800</th>
<th>EVT 200-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage 2Q</td>
<td>50 – 600V</td>
<td>50 – 800V</td>
</tr>
<tr>
<td>Voltage 4Q</td>
<td>-600 – 600V</td>
<td>-800 – 800V</td>
</tr>
<tr>
<td></td>
<td>± 400A [peak(1)]</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>± 80kW [cont.]</td>
<td>± 80kW [cont.]</td>
</tr>
<tr>
<td></td>
<td>± 135kW [peak(1)]</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; ± 0.1% full scale</td>
<td></td>
</tr>
<tr>
<td>Resolution I, U</td>
<td>±20mA / ±40mV</td>
<td></td>
</tr>
<tr>
<td>Data acquisition rate</td>
<td>1ms</td>
<td></td>
</tr>
<tr>
<td>Current rise time (10 – 90%)</td>
<td>≤ 3 ms (0.2 Ω resistive load)</td>
<td></td>
</tr>
<tr>
<td>Current ripple</td>
<td>≤ 1A&lt;sub&gt;pp&lt;/sub&gt; (1Ω, 300A)</td>
<td></td>
</tr>
<tr>
<td>DC output contactor</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

DC DATA

Other current and voltage ranges available on request.

AC DATA

Mains connection | 380, 400, 480V ± 10%, 50 – 60Hz ± 3Hz (3-phase)
Rated power-factor | > 0.98
Max. efficiency | 92%
Galvanic isolation to mains | yes
AC mains contactor | yes

COOLING, ENVIRONMENTAL CONDITIONS

Cooling | forced venting, front to top
Ambient operating temp. | 10 – 40°C (50 – 104°F)
Humidity | < 70%, non-condensing

GENERAL DATA

Protection level | IP20
Dimensions H x W X D | 1995 x 800 x 870 mm
Weight | ca. 900kg
Colour | RAL 7016 Anthracite grey

OPTIONS & ACCESSORIES

Additional CAN busses for BMS integration, external CAN control etc.
Additional Voltage, Temperature, and analog I/Os
Digital I/Os for auxiliary devices, RS-232, RS-485, etc.
Cabinet Castors
Second set of DC Output Contactors
Paralleling of Units or Single/Parallel Changeover
Connection Boxes located in Test Chamber
Second Voltage Measuring Range 100 V
Second Current Range 40A with low ripple(2)
AC Input Voltage on request (specify as required)
AC Input Energy Panel for 2–5 power circuits, 160/240/320/400 kW
DC Output Panel for 2–5 power circuits, 600/900/1200/1500 A
Dual mode operation EVT/BE
Water Cooling with Air-Water Heat Exchanger
External/Internal Isolation Fault Monitor changeover
Optional Paralleling of Power Circuitcs and DC Connection Boxes

(1) 30 sec very 15 min. (2) Accuracy 0.2%<sub>FS</sub> = 80mA

Design and specifications are subject to change without notice.