Scarcity of natural resources, energy conservation, financial efficiency & smooth operations have become crucial factors for any modern urban transport operator.

Based on our latest supercapacitor management technology, Centum Adetel Transportation Solution now offers NeoGreen, a highly efficient energy storage & conservation system, designed to maximize operational performance & smoothen operation for the Urban Transport operators.

Storing the surplus braking energy generated by the vehicles, NeoGreen feeds back the traction system in selected modes, optimized according to the operational conditions.

With up to 40% energy efficiency improvement, the system is easy to retrofit on an operational system with no traffic disruption.

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>750 VDC or 1500 VDC (EN 50163)</td>
</tr>
<tr>
<td>Available energy</td>
<td>0.33 to 4 kWh</td>
</tr>
<tr>
<td>Peak power</td>
<td>110 kW to 1.3 MW</td>
</tr>
<tr>
<td>Max. energy supplied per hour</td>
<td>30 to 120 kWh/h</td>
</tr>
<tr>
<td>Humidity</td>
<td>Lower than 92%</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-20 to +50 °C</td>
</tr>
<tr>
<td>Internal safety</td>
<td>Isolating switch, High speed circuit breaker</td>
</tr>
<tr>
<td>External communication</td>
<td>Ethernet 100 Mbps</td>
</tr>
<tr>
<td>Auxiliary power</td>
<td>400 VAC 3ph+N / 48 Vdc</td>
</tr>
</tbody>
</table>

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Operating features

→ Dual operational modes:
  - **Energy Saving**: stores electrical braking energy regenerated by several vehicles on a same line, energy is fed back to the line when vehicles accelerates
  - **Voltage stabilization**: raises up line voltage if voltage falls down to a defined level so that no vehicle tripping occur due to low line voltage

→ Energy consumption can be reduced up to 40%
→ Number of charge/discharge cycles very high (millions) due to supercapacitor technology ensures a long lifetime of the equipment
→ Evolving possibilities: basic system installed can be easily extended by optional bays of 0,3 MW peak and 1 kWh energy to fit to updated operation
→ Availability: autonomy of every branch allows the system to remain operational in case of one branch faulty

→ **Operational modes**
  - Energy saving
  - Voltage stabilization

→ **Economical advantages**
  - Reduction of energy consumption
  - Cost saving
  - Ultra long lifetime supercapacitor

→ **Modular advantages**
  - Storage modularity
  - Evolving possibilities
  - Availability

### Environment

<table>
<thead>
<tr>
<th></th>
<th>Dimensions Master</th>
<th>Dimensions Slave</th>
<th>Weight Master</th>
<th>Weight Slave</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions Master</strong></td>
<td>880 x 980 x 2250 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions Slave</strong></td>
<td></td>
<td>840 x 2000 x 2100 mm per unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight Master</strong></td>
<td></td>
<td></td>
<td>&lt; 950 kg depending on the configuration</td>
<td></td>
</tr>
<tr>
<td><strong>Weight Slave</strong></td>
<td></td>
<td></td>
<td></td>
<td>&lt; 1520 kg per unit</td>
</tr>
</tbody>
</table>

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