PowerVar
Low-Voltage Automatic Capacitor and Filter Banks
Rugged. Smart Controls. Multi-Option.
Choose PowerVar for Cost-Effective, Centralized Compensation

PowerVar is Powerside’s comprehensive range of industrial-grade automatic low-voltage capacitor and harmonic filter banks. These products are part of Powerside quick-ship product solutions that automatically connects the proper level of reactive compensation and harmonic filtering to maintain power networks at optimum operating conditions.

Used in mid to large industrial and commercial environments, they’re made for central compensation loads and nominal voltages at 480V to 600V*. Custom tuned configurations are also available.

Long Lasting. Easy to Service.

- Capacitor cells, with maintenance-free terminations
- Self-healing, overpressure disconnect, segmented film capacitors provide a higher current capacity rating
- Branch cycling ensures a longer life of capacitors and contactors
- Multigap core ensures lower reactor losses
- 200kA short circuit interrupting capacity
- Available with 3.78th tuning for resonance-free compensation
- Contactor has a pre-charge circuit to limit the in-rush current into the capacitors
- Designed to minimize the transfer of heat on capacitors and fuses
- Smart controller automatically maintains pre-set power factor target
- Communication via USB port, Modbus, Ethernet, or Profibus interfaces
- Front access serviceability for minimum mean time to repair (MTTR)
**PowerVar PFC**

**Applications**
- Variable inductive loads
- Low harmonic distortion

**Features**
- Automatic compensation
- 75-1200 kvar
- Contactor Switching
- 130% continuous overcurrent capacity

**PowerVar Harmonic**

**Applications**
- Variable inductive loads
- Moderate harmonic distortion

**Features**
- Automatic compensation
- 75-1200 kvar
- Contactor Switching
- 165% continuous overcurrent capacity

**PowerVar Filter**

**Applications**
- Variable non-linear loads
- High harmonic distortion

**Features**
- Automatic filtering
- 75-1200 kvar
- Contactor Switching
- 3.78th filter tuning
- 165% continuous overcurrent capacity

**PowerVar Fast**

**Applications**
- Dynamic loads
- High harmonic distortion

**Features**
- Ultra-fast automatic compensation, <1 cycle
- 75-1200 kvar
- Thyristor switching
- 165% continuous overcurrent capacity

Choose an option:
- 208/240 V
- NEMA 3R
- Controller alarm
- Main breaker
- Temperature alarm
- Blown fuse indicator
- Capacitor life indicator
- Additional stage readiness
- Stage status light
- Power-on indicator
- GFI breaker
- On/Off selector switch
- Door switch

Ask about our **cloud-based power monitoring solutions** and **services**.
Precise power quality control at your fingertips.

<table>
<thead>
<tr>
<th>PowerVar family</th>
<th>PFC</th>
<th>Harmonic</th>
<th>Filter</th>
<th>Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compensation type</td>
<td>Automatic</td>
<td>Automatic</td>
<td>Automatic</td>
<td>Ultra-fast automatic &lt; 1 cycle</td>
</tr>
<tr>
<td>Capacity</td>
<td>75 – 1200 kvar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>480V-600V*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum steps</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter Tuning</td>
<td>N/A</td>
<td>N/A</td>
<td>3.78th</td>
<td>3.78th</td>
</tr>
<tr>
<td>Thermal protection</td>
<td>N/A</td>
<td>N/A</td>
<td>Over temperature on reactor core</td>
<td>Over temperature on reactor core and Thyristor</td>
</tr>
<tr>
<td>Network harmonics</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Load characteristics</td>
<td>Variable inductive</td>
<td>Variable inductive</td>
<td>Variable non-linear</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Switching type</td>
<td>Contactor</td>
<td>Contactor</td>
<td>Contactor</td>
<td>Thyristor</td>
</tr>
<tr>
<td>Power factor controller</td>
<td>Microprocessor-based with alarm and protection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>USB port, Modbus, Ethernet, Profibus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum inrush current</td>
<td>N/A</td>
<td>165% continuous overcurrent capacity</td>
<td>165% continuous overcurrent capacity</td>
<td>165% continuous overcurrent capacity</td>
</tr>
<tr>
<td>Maximum continuous voltage</td>
<td>110%</td>
<td>110%</td>
<td>110%</td>
<td>110%</td>
</tr>
<tr>
<td>Maximum continuous current</td>
<td>130%</td>
<td>165%</td>
<td>165%</td>
<td>165%</td>
</tr>
<tr>
<td>Operating Temperature (F/C)</td>
<td>-40° to 115°/-40° to 46°</td>
<td>-40° to 140°/-40° to 60°</td>
<td>-40° to 140°/-40° to 60°</td>
<td>-40° to 140°/-40° to 60°</td>
</tr>
<tr>
<td>Maximum altitude (ASL)</td>
<td>3281 feet/1,000 m</td>
<td>13123 feet/4000 m</td>
<td>3281 feet/1000 m</td>
<td>13123 feet/4000 m</td>
</tr>
<tr>
<td>Enclosure rating</td>
<td>NEMA 1/12*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosure type, Dimensions (in/mm), Weight (lb/kg)</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>64x36x20</td>
<td>76x36x30</td>
<td>76x60x30</td>
<td>76x84x30</td>
<td>76x36x34</td>
<td>76x6x30</td>
<td>76x8x30</td>
<td>76x6x30</td>
<td>76x6x30</td>
<td>76x6x30</td>
<td>76x6x30</td>
<td>76x6x30</td>
</tr>
<tr>
<td>HxWxD (in/mm)</td>
<td>626x199x508</td>
<td>913x864x1312</td>
<td>913x1220x762</td>
<td>913x1524x762</td>
<td>913x1829x762</td>
<td>913x1915x762</td>
<td>913x1220x762</td>
<td>913x1524x762</td>
<td>913x1829x762</td>
<td>913x1915x762</td>
<td>913x1915x762</td>
<td>913x1915x762</td>
</tr>
<tr>
<td>Weight (lb/kg)</td>
<td>437/199</td>
<td>735/334</td>
<td>1077/489</td>
<td>1378/625</td>
<td>948/430</td>
<td>1378/625</td>
<td>948/430</td>
<td>1378/625</td>
<td>948/430</td>
<td>1378/625</td>
<td>948/430</td>
<td>1378/625</td>
</tr>
</tbody>
</table>

*208/240 V and other options available, longer lead times may apply.

Contact us
Canada
7850 Trans-Canada Highway
Saint-Laurent (QC) H4T 1A5
1 (877) 333-8392
info@powerside.com
powerside.com

United States
980 Atlantic Ave
Alameda (CA) 94501
1 (888) 736-4347
powerside.com

Powerside® is a trademark or registered trademark of Power Survey Ltd. © 2021 Powerside. All rights reserved.