CONNECT AND PROTECT

Power Control
Socket Strips
Cabinet Accessories – Power Control socket

OVERVIEW

MAIN KATALOG

Cabinets ........ 1
Wall mounted cases ........ 2
Accessories for cabinets and wall mounted cases ... 3
Climate control ... 4
Electronics cases ........ 5
Subracks/19° chassis ....... 6
Front panels, plug-in units .... 7
Systems ....... 8
Power supply units ........ 9
Backplanes ....... 10
Connectors, front panel component system ........ 11
Appendix ........ 12

Power Control socket strips

- Display Interfaces
- Telemetering and parametrisation with web-based user interface
- Event logging

Part number in bold face type: ready for shipping within 2 working days
Part number in normal type: ready for shipping within 10 working days
Cabinet Accessories – Power Control socket

OVERVIEW

POWER MANAGEMENT

• Monitoring of power, current and voltage of the entire socket strip or for each separate socket insert
• Telemonitoring and local indication via display
• Remote control of individual inserts (switch on/off)
• Programmable sequential switch-on/off of individual inserts
• Individual user access authorisations for each socket insert

MULTIMETER

• Measurement of current, voltage, apparent power, true power and power factor per phase or outlet
• Data sent to network or shown on local display

TELEMONITORED SOCKET STRIPS

• Measurement of current, voltage, apparent power, true power and power factor per phase or outlet
• Data sent to network or shown on local display
• Measurement at phase level and switch function on request

TELEMONITORED AND REMOTE-CONTROLLED SOCKET STRIPS

• Measurement of current, voltage, apparent power, true power and energy consumption at outlet level
• Data sent to network or shown on local display
• Remote-controlled switch-on/off of individual outputs

ENVIRONMENTAL SENSORS

• Sensors (temperature, humidity, differential pressure, airflow...) and hub for connecting multiple sensors, see from page 3.49

SERVICEPLUS

e.g. individual configuration (dimensions, socket inserts, mains supply)
Cabinet Accessories—Power Control socket strips

**RACKPOWER PDU 230 VAC SINGLE PHASE (RACK- OR PANEL MOUNT), FOR CONFIGURATION**

RackPower Intelligent Power Distribution Units are a configured to order product that addresses controlling power on Cabinets as well as Open Frame Racks and Wall-Mount enclosures. Design your power solution using a variety of configuration options. The units are available in horizontal 19-in. rack or vertical mounting capabilities and a broad range of features.

- Single or multi-phase
- Input voltages: North American 110 / 120 VAC or 208 VAC, European and Asia 230 VAC or 400 VAC
- Local and remote power monitoring of single outlets and circuits showing data for current (AMP), voltage (Volt), power (kW), energy consumption (kWh) and power factor of entire PDU with a metering accuracy to within +/- 1%
- Field Replaceable "Hot swappable" Smart Monitor (RP-Meter) and DC Module
- Remote power on/off switch
- 19" Rack Mounting (1 and 2 U offering)
- Versatile vertical / rack and cabinet mounting
- Surge protection
- Dual Power feed entry for single phase RackPower PDUs
- Temperature sensor or temperature & humidity sensor
- Power cord whip various lengths, color and plugs

To configure your PDU, go to [http://schroff.biz/PDU_Webapp/](http://schroff.biz/PDU_Webapp/)

**DELIVERY INCLUDES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Steel housing, standard is black, other finishes available</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Various cord length and plug styles available; also available in LSZH (low smoke zero halogen)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Mounting hardware</td>
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**ORDER INFORMATION**

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<tr>
<th>Description</th>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDU 230 VAC single phase</td>
<td>Rack mount</td>
<td>NP2RX</td>
</tr>
<tr>
<td>PDU 400 VAC multi-phase</td>
<td>Rack mount</td>
<td>NP3RX</td>
</tr>
<tr>
<td>Accessory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Gateway for PDU (vertical mounting)</td>
<td>1 piece</td>
<td>NPDV</td>
</tr>
<tr>
<td>Temperature sensor for PDU 1 piece</td>
<td></td>
<td>NPS1</td>
</tr>
<tr>
<td>Combination sensor, temperature and humidity sensor for PDU 1 piece</td>
<td></td>
<td>NPS2</td>
</tr>
</tbody>
</table>

**NOTE**

- Industrie Standards:
  - UL Listed File E309439 UL 60950-1 Information Technology Equipment 
  - cUL Listed File E309439 CSA-C22.2 No. 60950-1 Information Technology Equipment 
  - FCC, CE, RoHs, REACH
Cabinet Accessories–Power Control socket strips

**TELEMONITORED MULTIMETER**

- Inline meter, 1 U, 19" case with 19" mounting brackets
- Measures current, voltage and power (apparent and true power) per phase and total
- Local display of current and voltage per phase and sum values
- Ethernet interface and web interface
- 4 consumers or socket strips can be connected; input via IEC 60320 C20 plug; outlet via IEC 60320 C19 sockets
- Mains input via C13 socket conforming to IEC 60320
- To record temperature, humidity etc, environmental sensors can be connected

**DELIVERY INCLUDES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
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</thead>
<tbody>
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<td>Case, black, width 440.0 mm, display and control keys, interfaces on front and rear</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Mains cable, C13 socket to IEC 60320, cable length 1.5 m</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>19” mounting bracket, length 305 mm, St, 1 mm, black</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Cable support rail</td>
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**ORDER INFORMATION**

<table>
<thead>
<tr>
<th>U</th>
<th>Width</th>
<th>Depth</th>
<th>Input</th>
<th>Number of outputs</th>
<th>Output current</th>
<th>Part no.</th>
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<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td></td>
<td></td>
<td>A</td>
<td>60110-446</td>
</tr>
<tr>
<td>1</td>
<td>440.0</td>
<td>183</td>
<td>4 × IEC C20</td>
<td>4 × IEC C19</td>
<td>16</td>
<td></td>
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**Accessories**

- Temperature sensor Cable length 3 m, 1 piece 60110-313
- Temperature/humidity combi sensor Cable length 3 m, 1 piece 60110-314
- Two temperature/humidity combi sensors Cable length 2 x 3 m, 2 pieces 60110-315
- Dual potential-free contact sensor Cable length x m, 1 piece DPX-CC2-TR
- Two temperature sensors and one temperature/humidity combi sensor Cable length 3 x 3 m, 1 piece DPX-T3H1
- Differential pressure and temperature sensor Cable length 3 m, 1 piece DPX-T1DP1
- Airflow sensor Cable length 3 m, 1 piece DPX-AF1
- Hub to accept 4 sensors connecting cable 1 m, assembly kit, 1 piece 60110-316

**NOTE**

- 3-phase version on request
- For power management software see page 3.79
- Suitable socket strips see Socket Strips chapter, page 3.58
- Sensors (temperature, humidity, differential pressure, airflow...) and hub for connecting multiple sensors, see from page 3.48
- 19” assembly kit, see page 3.17
Cabinet Accessories–Power Control socket strips

TELEMONITORED (PER PHASE) SOCKET STRIPS

- Measurement of current, voltage and power (apparent and true power) per phase and sum value
- Local display of current and voltage per phase and sum value
- Ethernet interface and web interface
- Outlets to IEC 60320 with C13 sockets (230 VAC, 10 A) and C19 sockets (230 VAC, 16 A)
- Mains supply 230 VAC/400 VAC, 16 A or 32 A plug, cable length 3 m
- With magnetic circuit breakers to UL 489 (for 32 A version)
- To record temperature, humidity etc, environmental sensors can be connected

DELIVERY INCLUDES

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Socket strip, black, with interfaces, socket inserts and display, mains cable length 3 m</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Fixing materials kit</td>
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<tr>
<td>3</td>
<td>1</td>
<td>User manual</td>
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ORDER INFORMATION

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<th>Depth (mm)</th>
<th>Input</th>
<th>Number of outputs</th>
<th>Part no.</th>
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<tr>
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<td>19*</td>
<td>44</td>
<td>133.0</td>
<td>230 VAC, 16 A, 1-phase, IEC 60320 C20</td>
<td>8 x IEC C13</td>
</tr>
<tr>
<td>1298</td>
<td>–</td>
<td>52</td>
<td>43.0</td>
<td>230 VAC, 16 A, 1-phase, IEC 60320 C20</td>
<td>24 x IEC C13</td>
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<tr>
<td>1539</td>
<td>–</td>
<td>52</td>
<td>53.0</td>
<td>230 VAC, 32 A, 1-phase, IEC 60309</td>
<td>20 x IEC C13, 4 x IEC C19</td>
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<tr>
<td>1780</td>
<td>–</td>
<td>55</td>
<td>52</td>
<td>400 VAC, 32 A, 3-phase, IEC 60309</td>
<td>24 x IEC C13, 12 x IEC C19</td>
</tr>
</tbody>
</table>

Accessories

- Temperature sensor Cable length 3 m, 1 piece
- Humidity sensor Cable length 3 m, 1 piece
- Temperature/humidity combi sensor Cable length 2 x 3 m, 2 pieces
- Dual potential-free contact sensor Cable length x m, 1 piece
- Two temperature/s one temperature/humidity combi sensor Cable length 3 x 3 m, 1 piece
- Differential pressure and temperature sensor Cable length 3 m, 1 piece
- Airflow sensor Cable length 3 m, 1 piece
- Hub to accept 4 sensors connecting cable 1 m, assembly kit, 1 piece

NOTE

- Versions with additional switching function on request
- For power management software see page 3.79
- Sensors (temperature, humidity, differential pressure, airflow...) and hub for connecting multiple sensors see from page 3.48

Display, interface

<table>
<thead>
<tr>
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<td>Socket strip, black, with interfaces, socket inserts and display, mains cable length 3 m</td>
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<td>2</td>
<td>1</td>
<td>Fixing materials kit</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>User manual</td>
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</table>

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SCHROFF PRODUCT CATALOG 01/2019
Cabinet Accessories—Power Control socket strips

REMOTE-CONTROLLED SOCKET STRIPS, TELEMONITORED ON EACH PHASE

- Measures current, voltage and power (apparent and true power) per phase and total
- Local display of current and voltage per phase and sum values
- Remote-controlled on/off switching of connected consumers
- Ethernet interface and web interface
- Outlets to IEC 60320 with C13 sockets (230 VAC, 10 A) and C19 sockets (230 VAC, 16 A)
- Mains supply 230 VAC/400 VAC, 16 A or 32 A plug, cable length 3 m
- With magnetic circuit breakers to UL 489 (for 32 A version)
- To record temperature, humidity etc, environmental sensors can be connected

DELIVERY INCLUDES

<table>
<thead>
<tr>
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<th>Qty</th>
<th>Description</th>
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<tbody>
<tr>
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<td>1</td>
<td>Socket strip, black, with interfaces, socket inserts and display, mains cable length 3 m</td>
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<tr>
<td>2</td>
<td>1</td>
<td>Fixing materials kit</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>User manual</td>
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**ORDER INFORMATION**

<table>
<thead>
<tr>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
<th>Input</th>
<th>Number of outputs</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>440</td>
<td>19”</td>
<td>44</td>
<td>133</td>
<td>230 VAC, 16 A, 1-phase, IEC 60320 C20</td>
<td>8 x IEC C13</td>
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<td>1297</td>
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<td>65</td>
<td>65</td>
<td>230 VAC, 16 A, 1-phase, IEC 60320 C20</td>
<td>24 x IEC C13</td>
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<tr>
<td>1539</td>
<td>52</td>
<td>65</td>
<td>65</td>
<td>230 VAC, 32 A, 1-phase, IEC 60309</td>
<td>20 x IEC C13, 4 x IEC C19</td>
</tr>
<tr>
<td>1780</td>
<td>52</td>
<td>65</td>
<td>65</td>
<td>400 VAC, 32 A, 3-phase, IEC 60309</td>
<td>24 x IEC C13, 12 x IEC C19</td>
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</table>

**Accessories**

- Temperature sensor Cable length 3 m, 1 piece 60110-313
- Temperature/humidity combi sensor Cable length 3 m, 1 piece 60110-314
- Two temperature/humidity combi sensors Cable length 2 x 3 m, 2 pieces 60110-315
- Dual potential-free contact sensor Cable length x m, 1 piece DPX-CC2-TR
- Two temperature sensors and one temperature/humidity combi sensor Cable length 3 x 3 m, 1 piece DPX-T3H1
- Differential pressure and temperature sensor Cable length 3 m, 1 piece DPX-T1DP1
- Airflow sensor Cable length 3 m, 1 piece DPX-AF1
- Hub to accept 4 sensors connecting cable 1 m, assembly kit, 1 piece 60110-316

**NOTE**

- For power management software see page 3.79
- Sensors (temperature, humidity, differential pressure, airflow...) and hub for connecting multiple sensors see from page 3.48
Cabinet Accessories—Power Control socket strips

REMOTE-CONTROLLED SOCKET STRIPS, TELEMONITORED ON EACH OUTLET

- Remote-controlled on/off switching of connected consumers
- Measures current, voltage and power (apparent and true power) per outlet, phase and total
- Local display of current and voltage per outlet, phase and total
- Ethernet interface and web interface
- Outlets to IEC 60320 with C13 sockets (230 VAC, 10 A) and C19 sockets (230 VAC, 16 A)
- Mains input 230 VAC, 32 A plug to IEC 60309, cable length 3 m
- With magnetic circuit breakers to UL 489
- To record temperature, humidity etc, environmental sensors can be connected

DELIVERY INCLUDES

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Socket strip, black, with interfaces, socket inserts and display, mains cable length 3 m</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Fixing materials kit</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>User manual</td>
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ORDER INFORMATION

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<th>Depth mm</th>
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<th>Number of outputs</th>
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<tbody>
<tr>
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<td>19&quot;</td>
<td>44</td>
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<td>230 VAC, 16 A, 1</td>
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<td>65</td>
<td>400 VAC, 32 A, 3-phase, IEC 60309</td>
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<td>65</td>
<td>230 VAC, 16 A</td>
<td>8 x IEC C13</td>
<td>60110-444</td>
</tr>
</tbody>
</table>

Accessories

Temperature sensor Cable length 3 m, 1 piece 60110-313
Temperature/ humidity combi sensor Cable length 3 m, 1 piece 60110-314
Two temperature/ humidity combi sensors Cable length 2 x 3 m, 2 pieces 60110-315
Dual potential-free contact sensor Cable length x m, 1 piece DPX-CC2-TR
Two temperature sensors and one temperature/ humidity combi sensor Cable length 3 x 3 m, 1 piece DPX-T3H1
Differential pressure and temperature sensor Cable length 3 m, 1 piece DPX-TP1
Airflow sensor Cable length 3 m, 1 piece DPX-AF1
Hub to accept 4 sensors connecting cable 1 m, assembly kit, 1 piece 60110-316

NOTE

- Differential current measurement available on request
- For power management software see page 3.79
- Sensors (temperature, humidity, differential pressure, airflow...) and hub for connecting multiple sensors see from page 3.48
Cabinet Accessories–Power Control socket strips

**POWER MANAGEMENT SOFTWARE**

**Energy management with Power IQ®**
- Centralised administration with mass configuration, firmware administration and designation of outputs
- Create energy, cost and active current reports at levels from individual plugs or IT devices through to the entire data centre
- Export graphical data
- Aggregate data from different manufacturers

**ORDER INFORMATION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power management software</td>
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**Cabling example**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Real-time monitoring of web graphical user interface (GUI)</td>
</tr>
<tr>
<td>2</td>
<td>Existing customer server or an optionally available hardware system on which the software is installed</td>
</tr>
<tr>
<td>3</td>
<td>Telemonitored and remote-controlled socket strip, available with IEC C13 and C19 socket inserts</td>
</tr>
<tr>
<td>4</td>
<td>Linking of items 1, 2 and 3 to LAN</td>
</tr>
<tr>
<td>5</td>
<td>CEE power connection cable available with 230 V AC (16 A or 32 A) or 400 V AC (16 A and 32 A) supply</td>
</tr>
<tr>
<td>6</td>
<td>Local display</td>
</tr>
<tr>
<td>7</td>
<td>Telemonitored environmental sensors</td>
</tr>
<tr>
<td>8</td>
<td>Connection of sensors to socket strip</td>
</tr>
<tr>
<td>9</td>
<td>Mains cable, from socket strip to consumer (e.g. server)</td>
</tr>
</tbody>
</table>
North America
Warwick, RI, USA
Tel +1.800.525.4682
San Diego, CA, USA
Tel +1.800.854.7086

Europe, Middle East & India
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Betschdorf, France
Tel +33 3 88 90 64 90
Warsaw, Poland
Tel +48 22 209 98 35
Hemel Hempstead, Great Britain
Tel +44 1442 24 04 71
Lainate, Italy
Tel +39 02 932 714 1
Dubai, United Arab Emirates
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Bangalore, India
Tel +91 80 67152000
Istanbul, Turkey
Tel +90 216 250 7374

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Singapore
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Shin-Yokohama, Japan
Tel +81 45 476 0271

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