Because every output can be set to a custom value between 4 V and 28 V, there is no need for additional power supply wiring. The system can be expanded to include 36 independent outputs, each of which is protected against overload and can be set between 4 and 28 volts.

This instant on/off function can be enabled physically on the unit, which can be done remotely using the integrated Web server. This function can be enabled via an OPC UA server, the SITOP Manager, or simply with PROFIenergy. The current of each output is continuously monitored and can be switched off if a limit is exceeded. The energy data of all outputs is acquired during operation.

Top efficiency –

The SITOP PSU8600 can simplify commissioning and service. OPC UA logic over Industrial Ethernet with open communication protocols enables full integration in your automation system – in both line and ring topologies. The SITOP Manager is available for the Windows 7 or Windows 10 operating system. Via the user interface based on a Web browser, the SITOP Manager performs manufacturer-independent communication with other systems via the OPC UA protocol. The SITOP PSU8600 is compatible with TIA and fully integrates a power supply into networked automation systems.

The SITOP PSU8600 also performs manufacturer-independent communication with the TIA Portal. Via the user interface based on a Web browser, the SITOP Manager performs manufacturer-independent communication with other systems via the OPC UA protocol. The SITOP Manager is available for the Windows 7 or Windows 10 operating system. Via the user interface based on a Web browser, the SITOP Manager performs manufacturer-independent communication with other systems via the OPC UA protocol.

Thanks to the switch functionality with two ports, the SITOP PSU8600 can be used as an extremely reliable power supply, even in critical applications. The SITOP Manager is available for the Windows 7 or Windows 10 operating system. Via the user interface based on a Web browser, the SITOP Manager performs manufacturer-independent communication with other systems via the OPC UA protocol. The SITOP Manager is available for the Windows 7 or Windows 10 operating system. Via the user interface based on a Web browser, the SITOP Manager performs manufacturer-independent communication with other systems via the OPC UA protocol.
**Top reliability – through selectivity, monitoring and buffering of outputs**

Monitoring and selecting switching outputs

To prevent a short circuit or an uncontrolled switching a short-circuit output or output short-circuit can be used. The short-circuit output can be individually programmed so that a short circuit can be set not individually for each device.

Options: 100 VA power limitation according to NEC Class 2, 2.5 A is certified according to NEC Class 2, meaning that all outputs can be individually switched off in event of a failure. The voltage and output current can be independently across all outputs via Industrial Ethernet/PROFINET interface with 2 ports.

Situations can be identified early on to reduce plant failures and current data independently across all outputs via the SIMATIC PCS 7 library, the integrated Web engineering and monitoring tool, SITOP Manager. Even overvoltage and undervoltage, but also via the SIMATIC PCS 7 library, the integrated Web engineering and monitoring tool, SITOP Manager. Even overvoltage and undervoltage, but also via the SIMATIC PCS 7 library, the integrated Web engineering and monitoring tool, SITOP Manager.

The visualization of all relevant values and states of the power supply is made easy with the TIA Portal, via STEP 7 or SITOP Manager. Even overvoltage and undervoltage, but also via the SIMATIC PCS 7 library, the integrated Web engineering and monitoring tool, SITOP Manager.

**Technical specifications**

**Basic units PSU8600 with one output**
- Basic device PSU8600 with four outputs

<table>
<thead>
<tr>
<th>Specification</th>
<th>PSU8600 with one output</th>
<th>PSU8600 with four outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output current, overload (extra power)</td>
<td>30 A for 5 s/min</td>
<td>60 A for 5 s/min</td>
</tr>
<tr>
<td>Rated input current value</td>
<td>1.4-1.1 A</td>
<td>2.75-2.2 A</td>
</tr>
<tr>
<td>Rated input voltage value/range</td>
<td>3 400-500 V AC/3 320 … 575 V AC</td>
<td>3 400-500 V AC/3 320 … 575 V AC</td>
</tr>
<tr>
<td>Setting range threshold value overload protection</td>
<td>2 … 20 A</td>
<td>4 … 40 A</td>
</tr>
<tr>
<td>EMC Line harmonics limitation (EN 61000-3-2), radio suppression level</td>
<td>Class B (EN 55022)</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x H x D) in mm</td>
<td>60 x 125 x 150</td>
<td>125 x 125 x 150</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-25 … +60 °C</td>
<td>-10 ... +50 °C</td>
</tr>
<tr>
<td>Typical charging time</td>
<td>19 s</td>
<td>54 s</td>
</tr>
<tr>
<td>Charging capacity</td>
<td>120 W, 60 W (switchable)</td>
<td></td>
</tr>
</tbody>
</table>

**Diagnostics and setting options on the modules**

- Status displays on basic devices
- Settings and display per output
- Mode selector on basic devices
- 3-color LED for status of power supply system
- Display for manual or remote operation
- Signaling contact (changeover contact) “DC OK”
- Signaling contact (normally open) “Charge status > x %”
- 3-color LED
- Remote reset

**Expanded diagnostics**

- Early detection of dynamic, continuous or recurring overload states with the aid of momentary current values
- Detection and logging of short-term power and phase failures to analyze the mains quality
- Switch-on and switch-off of individual outputs for direct control of consumers or to save energy, e.g. via PROFIenergy protocol
- Selective switch-off of faulty feeders, response threshold can be set individually.
- Status displays expansion and buffer modules (can be set via software)

**Certifications**

CE, cULus, CB, cCSAus, IECEx, ATEX, ABS, DNV GL and ABS

**SITOP PSU8600 – the modular system for all requirements**

- Buffer components UPS8600 and UPS8600 (max. 4)
- On delay between the outputs, also of expansion modules CNX8600: 0 ms, 25 ms, 100 ms, load-optimized
- Parallel operation of outputs 1 + 2 or 3 + 4
- Overload behavior
- Setting of output voltage: 4 ... 28 V DC
- 8 x 2.5 A
- Up to 5 battery modules of the same type: BAT8600 LiFePO4 264 Wh (LiFePO4), 264 Wh, 48 V

**Additional diagnostics and settings options via Industrial Ethernet/PROFINET interface with 2 ports**

- Additional diagnostics and settings options via Industrial Ethernet/PROFINET interface with 2 ports
- 4 s/40 A
- CNX8600 expansion modules (max. 4)