



## Basic units 24 V DC (PSU8600)

### Overview

Despite their compact overall width, the 1-phase and 3-phase basic units of the SITOP PSU8600 power supply system include one Ethernet/PROFINET interface, as well as one or four configurable outputs (voltage and current threshold) with selective monitoring. If needed, additional modules from the modular system can be added to the basic unit without any wiring effort in order to increase the number of outputs (CNX8600) or to extend the power buffering time (BLUF8600, UPS8600). Comprehensive diagnostic and maintenance information is available via PROFINET. It can be evaluated directly in SIMATIC S7 and visualized in SIMATIC WinCC. Energy management is also optimally supported through the acquisition of energy data for each output as well as individual activation and deactivation of the outputs via PROFenergy.

Multi-vendor transfer of parameters and diagnostic data is also possible via the open communications interface OPC UA.

### Product highlights

- Extremely slim design with very high efficiency of up to 94%
- Voltage and current threshold can be set separately and are infinitely adjustable for each output
- Extra power with 1.5 times the rated current (5 s/min) for brief, operational overload
- Integrated Ethernet/PROFINET interface (2 ports)
- Easy configuration in the TIA Portal
- Integrated web server for remote diagnostics
- Outputs can be deactivated and activated in a targeted manner with PROFenergy

### Technical specifications

| Article number   | 6EP3336-8MB00-2CY0  | 6EP3436-8MB00-2CY0  | 6EP3436-8SB00-2AY0  | 6EP3437-8MB00-2CY0  | 6EP3437-8SB00-2AY0  |
|--|---|---|---|---|---|
| Product  | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   |
| Power supply, type   | 24 V/20 A/4x 5 A  | 24 V/20 A/4x 5 A  | 24 V/20 A   | 24 V/40 A/4x 10 A   | 24 V/40 A   |
| <b>Input</b>   |   |   |   |   |   |
| type of the power supply network   | 1-phase and 2-phase AC or DC  | 3-phase AC  | 3-phase AC  | 3-phase AC  | 3-phase AC  |
| supply voltage at AC   |   |   |   |   |   |
| • minimum rated value  | 100 V   | 400 V   | 400 V   | 400 V   | 400 V   |
| • maximum rated value  | 240 V   | 500 V   | 500 V   | 500 V   | 500 V   |
| • initial value  | 85 V  | 320 V; Derating 320 ... 360 and 530 ... 575 V   | 320 V; Derating 320 ... 360 and 530 ... 575 V   | 320 V; Derating 320 ... 360 and 530 ... 575 V   | 320 V; Derating 320 ... 360 and 530 ... 575 V   |
| • full-scale value   | 275 V   | 575 V   | 575 V   | 575 V   | 575 V   |
| supply voltage   |   |   |   |   |   |
| • at DC  | 110 ... 220 V   |   |   |   |   |
| input voltage  |   |   |   |   |   |
| • at DC  | 93 ... 275 V  |   |   |   |   |
| design of input wide range input   | Yes   | Yes   | Yes   | Yes   | Yes   |
| operating condition of the mains buffering   | at Vin = 100 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of the output in case of power failure selectable via DIP switch (only in conjunction with CNX8600 expansion module) | at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of the output in case of power failure selectable via DIP switch (only in conjunction with CNX8600 expansion module) |
| buffering time for rated value of the output current in the event of power failure minimum | 20 ms   | 15 ms   | 15 ms   | 15 ms   | 15 ms   |
| operating condition of the mains buffering   | at Vin = 100 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of the output in case of power failure selectable via DIP switch (only in conjunction with CNX8600 expansion module) | at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch | at Vin = 400 V; Prioritized supply of the output in case of power failure selectable via DIP switch (only in conjunction with CNX8600 expansion module) |
| line frequency   |   |   |   |   |   |
| • 1 rated value  | 50 Hz   | 50 Hz   | 50 Hz   | 50 Hz   | 50 Hz   |
| • 2 rated value  | 60 Hz   | 60 Hz   | 60 Hz   | 60 Hz   | 60 Hz   |
| line frequency input current   | 47 ... 63 Hz  | 47 ... 63 Hz  | 47 ... 63 Hz  | 47 ... 63 Hz  | 47 ... 63 Hz  |
| • at rated input voltage 100 V   | 5.4 A   |   |   |   |   |

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|---|---|---|---|--|--|
| Product   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600  | SITOP PSU8600  |
| Power supply, type                                    | 24 V/20 A/4x 5 A  | 24 V/20 A/4x 5 A  | 24 V/20 A   | 24 V/40 A/4x 10 A  | 24 V/40 A  |
| • at rated input voltage 120 V                        | 4.5 A   |   |   |  |  |
| • at rated input voltage 230 V                        | 2.5 A   |   |   |  |  |
| • at rated input voltage 240 V                        | 2.4 A   |   |   |  |  |
| • at rated input voltage 110 V                        | 4.8 A   |   |   |  |  |
| • at rated input voltage 220 V                        | 2.4 A   |   |   |  |  |
| • at rated input voltage 400 V                        |   | 1.4 A   | 1.4 A   | 2.75 A   | 2.75 A   |
| • at rated input voltage 500 V                        |   | 1.1 A   | 1.1 A   | 2.2 A  | 2.2 A  |
| current limitation of inrush current at 25 °C maximum | 15 A  | 14 A  | 14 A  | 14 A   | 14 A   |
| I2t value maximum                                     | 4.33 A²·s   | 1.2 A²·s  | 1.2 A²·s  | 2.24 A²·s  | 2.24 A²·s  |
| fuse protection type                                  | internal  | none  | none  | none   | none   |
| • in the feeder                                       | required: circuit breaker (for UL: UL489-listed/DIVQ) characteristic C, 10-32 A, alternatively slow-response fuses (for UL: UL248-listed) | Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) | Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) | Required: 3-pole connected miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) | Required: 3-pole connected miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) |
| <b>Output</b>   |   |   |   |  |  |
| voltage curve at output                               | Controlled, isolated DC voltage   | Controlled, isolated DC voltage   | Controlled, isolated DC voltage   | Controlled, isolated DC voltage  | Controlled, isolated DC voltage  |
| number of outputs                                     | 4   | 4   | 1   | 4  | 1  |
| output voltage at DC rated value                      | 24 V  | 24 V  | 24 V  | 24 V   | 24 V   |
| output voltage  |   |   |   |  |  |
| • at output 1 at DC rated value                       | 24 V  | 24 V  | 24 V  | 24 V   | 24 V   |
| • at output 2 at DC rated value                       | 24 V  | 24 V  |   | 24 V   |  |
| • at output 3 at DC rated value                       | 24 V  | 24 V  |   | 24 V   |  |
| • at output 4 at DC rated value                       | 24 V  | 24 V  |   | 24 V   |  |
| relative overall tolerance of the voltage             | 3 %   | 3 %   | 3 %   | 3 %  | 3 %  |
| relative control precision of the output voltage      |   |   |   |  |  |
| • on slow fluctuation of input voltage                | 0.2 %   | 0.2 %   | 0.2 %   | 0.2 %  | 0.2 %  |
| • on slow fluctuation of ohm loading                  | 0.1 %   | 0.1 %   | 0.1 %   | 0.1 %  | 0.1 %  |
| residual ripple                                       |   |   |   |  |  |
| • maximum   | 100 mV  | 100 mV  | 100 mV  | 100 mV   | 100 mV   |
| voltage peak  |   |   |   |  |  |

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|---|---|---|---|---|---|
| Product   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   |
| Power supply, type                                    | 24 V/20 A/4x 5 A  | 24 V/20 A/4x 5 A  | 24 V/20 A   | 24 V/40 A/4x 10 A   | 24 V/40 A   |
| • maximum   | 200 mV  | 200 mV  | 200 mV  | 200 mV  | 200 mV  |
| adjustable output voltage                             | 4 ... 28 V  | 4 ... 28 V  | 4 ... 28 V  | 4 ... 28 V  | 4 ... 28 V  |
| product function output voltage adjustable            | Yes   | Yes   | Yes   | Yes   | Yes   |
| type of output voltage setting                        | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system   | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system   | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 480 W overall system  | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 240 W per output, max. 960 W overall system   | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 960 W overall system  |
| display version for normal operation                  | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4 | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4 | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output  | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4 | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output  |
| type of signal at output                              | Relay contact (changeover contact, contact current capacity DC 60 V/0,3 A) for "Operating state OK"   | Relay contact (changeover contact, contact current capacity DC 60 V/0,3 A) for "Operating state OK"   | Relay contact (changeover contact, contact current capacity DC 60 V/0,3 A) for "Operating state OK"   | Relay contact (changeover contact, contact current capacity DC 60 V/0,3 A) for "Operating state OK"   | Relay contact (changeover contact, contact current capacity DC 60 V/0,3 A) for "Operating state OK"   |
| behavior of the output voltage when switching on      | No overshoot of Vout (soft start)   | No overshoot of Vout (soft start)   | No overshoot of Vout (soft start)   | No overshoot of Vout (soft start)   | No overshoot of Vout (soft start)   |
| response delay maximum                                | 1 s; Without on-delay of the outputs  | 1 s; Without on-delay of the outputs  | 1 s   | 1 s; Without on-delay of the outputs  | 1 s   |
| type of outputs connection                            | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set  | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set  | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set (only with expansion module CNX8600) | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set  | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set (only with expansion module CNX8600) |
| voltage increase time of the output voltage           |   |   |   |   |   |
| • maximum   | 500 ms  | 500 ms  | 500 ms  | 500 ms  | 500 ms  |
| output current  |   |   |   |   |   |
| • rated value   | 20 A  | 20 A  | 20 A  | 40 A  | 40 A  |
| • per output  | 5 A   | 5 A   | 20 A  | 10 A  | 40 A  |
| • at output 1 rated value                             | 5 A   | 5 A   | 20 A  | 10 A  | 40 A  |
| • at output 2 rated value                             | 5 A   | 5 A   |   | 10 A  |   |
| • at output 3 rated value                             | 5 A   | 5 A   |   | 10 A  |   |
| • at output 4 rated value                             | 5 A   | 5 A   |   | 10 A  |   |
| • rated range   | 0 ... 20 A  | 0 ... 20 A; +50 ... +60 °C; Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W   | 0 ... 20 A; +50 ... +60 °C; Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W   | 0 ... 40 A; +50 ... +60 °C; Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 480 W   | 0 ... 40 A; +50 ... +60 °C; Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 480 W   |
| supplied active power typical                         | 480 W   | 480 W   | 480 W   | 960 W   | 960 W   |
| short-term overload current                           |   |   | 60 A; only in operation without CNX8600 extension module  |   | 120 A; only in operation without CNX8600 extension module   |
| duration of overloading capability for excess current |   |   | 25 ms   |   | 25 ms   |
| • at short-circuit during operation typical           |   |   |   |   |   |
| product feature                                       |   |   |   |   |   |
| • parallel switching of                               | Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can  | Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can  |   | Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can  |   |

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|---|--|--|---|--|---|
| Product   | SITOP PSU8600  | SITOP PSU8600  | SITOP PSU8600   | SITOP PSU8600  | SITOP PSU8600   |
| Power supply, type  | 24 V/20 A/4x 5 A   | 24 V/20 A/4x 5 A   | 24 V/20 A   | 24 V/40 A/4x 10 A  | 24 V/40 A   |
| outputs   | be selected via DIP switch   | be selected via DIP switch   |   | be selected via DIP switch   |   |
| • bridging of equipment   | No   | No   | Yes; suitable output characteristics via DIP switch can be selected                                       | No   | Yes; suitable output characteristics via DIP switch can be selected                                       |
| number of parallel-switched equipment resources for increasing the power  |  |  | 2   |  | 2   |
| <b>Efficiency</b>   |  |  |   |  |   |
| efficiency in percent   | 92 %   | 93 %   | 93 %  | 93 %   | 93 %  |
| power loss [W]  |  |  |   |  |   |
| • at rated output voltage for rated value of the output current typical   | 39 W   | 34 W   | 34 W  | 72 W   | 72 W  |
| • during no-load operation maximum  | 14 W   | 12 W   | 12 W  | 20 W   | 20 W  |
| <b>Closed-loop control</b>  |  |  |   |  |   |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.1 %  | 0.1 %  | 0.1 %   | 0.1 %  | 0.1 %   |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical                | 0.4 %  | 0.4 %  | 0.4 %   | 0.4 %  | 0.4 %   |
| setting time  |  |  |   |  |   |
| • maximum   | 10 ms  | 10 ms  | 10 ms   | 10 ms  | 10 ms   |
| <b>Protection and monitoring</b>  |  |  |   |  |   |
| design of the overvoltage protection  | max. 35 V (max. 500 ms)  | max. 35 V (max. 500 ms)  | max. 35 V (max. 500 ms)   | max. 35 V (max. 500 ms)  | max. 35 V (max. 500 ms)   |
| property of the output short-circuit proof  | Yes  | Yes  | Yes   | Yes  | Yes   |
| design of short-circuit protection  | electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches | electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches | Electronic overload shutdown; optional constant-current operation can be selected via DIP switch          | electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches | Electronic overload shutdown; optional constant-current operation can be selected via DIP switch          |
| adjustable current response value current of the current-dependent overload release                             | 0.5 ... 5 A  | 0.5 ... 5 A  | 2 ... 20 A  | 0.5 ... 10 A   | 4 ... 40 A  |
| type of response value setting  | via potentiometer or IE/PN interface   | via potentiometer or IE/PN interface   | via potentiometer or IE/PN interface  | via potentiometer or IE/PN interface   | via potentiometer or IE/PN interface  |
| switching characteristic  |  |  |   |  |   |
| • of the excess current   | la >1.0...<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms        | la >1.0...<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms        | la >1.0...<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms | la >1.0...<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms        | la >1.0...<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms |
| • of the current limitation   | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous                          | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous                          | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous                   | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous                          | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous                   |
| design of the reset device/resetting mechanism  | via sensor per output or IE/PN interface   | via sensor per output or IE/PN interface   | via sensor or IE/PN interface   | via sensor per output or IE/PN interface   | via sensor or IE/PN interface   |
| remote reset function   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)                                      | Non-electrically isolated 24 V input (signal level "high" at > 15 V)   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)                                      |
| overcurrent overload capability in normal operation   | Total system overloadable 150% la rated to 5 s/min   | Total system overloadable 150% la rated to 5 s/min   | Total system overloadable 150% la rated to 5 s/min  | Total system overloadable 150% la rated to 5 s/min   | Total system overloadable 150% la rated to 5 s/min  |
| display version for overload  | 3-color LED for operating state  | 3-color LED for operating state  | 3-color LED for operating state   | 3-color LED for operating state  | 3-color LED for operating state   |

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|--|---|---|---|---|---|
| Product  | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   |
| Power supply, type                               | 24 V/20 A/4x 5 A  | 24 V/20 A/4x 5 A  | 24 V/20 A   | 24 V/40 A/4x 10 A   | 24 V/40 A   |
| and short circuit                                | device; 3-color LED per output for operating state output   | device; 3-color LED per output for operating state output   | device; 3-color LED for operating state output  | device; 3-color LED per output for operating state output   | device; 3-color LED for operating state output  |
| <b>Interface</b>                                 |   |   |   |   |   |
| design of the interface                          | Ethernet/PROFINET   | Ethernet/PROFINET   | Ethernet/PROFINET   | Ethernet/PROFINET   | Ethernet/PROFINET   |
| • PROFINET protocol                              | Yes   | Yes   | Yes   | Yes   | Yes   |
| protocol is supported OPC UA                     | Yes   | Yes   | Yes   | Yes   | Yes   |
| <b>Safety</b>                                    |   |   |   |   |   |
| galvanic isolation between input and output      | Yes   | Yes   | Yes   | Yes   | Yes   |
| galvanic isolation                               | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178                                      | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178                                      | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178                                      | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178                                      | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178                                      |
| operating resource protection class              | Class I   | Class I   | Class I   | Class I   | Class I   |
| leakage current                                  |   |   |   |   |   |
| • maximum  | 3.5 mA  | 3.5 mA  | 3.5 mA  | 3.5 mA  | 3.5 mA  |
| protection class IP                              | IP20  | IP20  | IP20  | IP20  | IP20  |
| <b>Approvals</b>                                 |   |   |   |   |   |
| certificate of suitability                       |   |   |   |   |   |
| • CE marking                                     | Yes   | Yes   | Yes   | Yes   | Yes   |
| • UL approval                                    | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| • CSA approval                                   | No; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| • cCSAus, Class 1, Division 2                    | No  | No  | No  | No  | No  |
| • ATEX   | No  | No  | No  | No  | No  |
| certificate of suitability                       |   |   |   |   |   |
| • IECEX  | No  | No  | No  | No  | No  |
| • NEC Class 2                                    | No  | No  | No  | No  | No  |
| • ULhazloc approval                              | No  | No  | No  | No  | No  |
| • FM registration                                | No  | No  | No  | No  | No  |
| type of certification CB-certificate             | Yes   | Yes   | Yes   | Yes   | Yes   |
| certificate of suitability                       |   |   |   |   |   |
| • EAC approval                                   | Yes   | Yes   | Yes   | Yes   | Yes   |
| • C-Tick   | No  | No  | No  | No  | No  |
| certificate of suitability shipbuilding approval | No  | Yes   | Yes   | Yes   | Yes   |
| shipbuilding approval                            |   | ABS, DNV GL   | ABS, DNV GL   | ABS, DNV GL   | ABS, DNV GL   |
| Marine classification association                |   |   |   |   |   |
| • American Bureau of Shipping Europe Ltd. (ABS)  | No  | Yes   | Yes   | Yes   | Yes   |
| • French marine classification society (BV)      | No  | No  | No  | No  | No  |
| • DNV GL   | No  | Yes   | Yes   | Yes   | Yes   |

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| Product                                       | SITOP PSU8600  | SITOP PSU8600  | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   |
| Power supply, type                            | 24 V/20 A/4x 5 A   | 24 V/20 A/4x 5 A   | 24 V/20 A   | 24 V/40 A/4x 10 A   | 24 V/40 A   |
| • Lloyds Register of Shipping (LRS)           | No   | No   | No  | No  | No  |
| • Nippon Kaiji Kyokai (NK)                    | No   | No   | No  | No  | No  |
| <b>EMC</b>                                    |  |  |   |   |   |
| standard                                      |  |  |   |   |   |
| • for emitted interference                    | EN 55022 Class B   | EN 55022 Class B   | EN 55022 Class B  | EN 55022 Class B  | EN 55022 Class B  |
| • for mains harmonics limitation              | EN 61000-3-2   | EN 61000-3-2   | EN 61000-3-2  | EN 61000-3-2  | EN 61000-3-2  |
| • for interference immunity                   | EN 61000-6-2   | EN 61000-6-2   | EN 61000-6-2  | EN 61000-6-2  | EN 61000-6-2  |
| <b>environmental conditions</b>               |  |  |   |   |   |
| ambient temperature                           |  |  |   |   |   |
| • during operation                            | -25 ... +60 °C; with natural convection  | -25 ... +60 °C; with natural convection  | -25 ... +60 °C; with natural convection   | -25 ... +60 °C; with natural convection   | -25 ... +60 °C; with natural convection   |
| • during transport                            | -40 ... +85 °C   | -40 ... +85 °C   | -40 ... +85 °C  | -40 ... +85 °C  | -40 ... +85 °C  |
| • during storage                              | -40 ... +85 °C   | -40 ... +85 °C   | -40 ... +85 °C  | -40 ... +85 °C  | -40 ... +85 °C  |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation   | Climate class 3K3, 5 ... 95% no condensation   | Climate class 3K3, 5 ... 95% no condensation  | Climate class 3K3, 5 ... 95% no condensation  | Climate class 3K3, 5 ... 95% no condensation  |
| <b>Mechanics</b>                              |  |  |   |   |   |
| type of electrical connection                 | Plug-in terminals with screwed connection  | Plug-in terminals with screwed connection  | Plug-in terminals with screwed connection   | Plug-in terminals with screwed connection   | Plug-in terminals with screwed connection   |
| • at input                                    | L1/+ , N/L2/-, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm <sup>2</sup> single-wire / fine stranded   | L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm <sup>2</sup> single-wire / fine stranded  | L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm <sup>2</sup> single-wire / fine stranded                                   | L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm <sup>2</sup> single-wire / fine stranded   | L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm <sup>2</sup> single-wire / fine stranded                                     |
| • at output                                   | 1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 ... 2.5 mm <sup>2</sup> ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 ... 4 mm <sup>2</sup> | 1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 ... 2.5 mm <sup>2</sup> ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 ... 4 mm <sup>2</sup> | Output: plug-in terminals with 2 screw connectors for 0.2 ... 4 mm <sup>2</sup> ; 0 V: screw terminal with 3 screw connectors for 0.2 ... 4 mm <sup>2</sup> | 1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 ... 2.5 mm <sup>2</sup> ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 ... 10 mm <sup>2</sup> | Output: plug-in terminals with 2 screw connectors for 0.5 ... 10 mm <sup>2</sup> ; 0 V: screw terminal with 3 screw connectors for 0.5 ... 10 mm <sup>2</sup> |
| • for auxiliary contacts                      | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm <sup>2</sup>   | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm <sup>2</sup>   | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm <sup>2</sup>  | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm <sup>2</sup>  | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm <sup>2</sup>  |
| • for signaling contact                       | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm <sup>2</sup>   | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm <sup>2</sup>   | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm <sup>2</sup>                            | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm <sup>2</sup>  | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm <sup>2</sup>                              |
| product function                              |  |  |   |   |   |
| • removable terminal at input                 | Yes  | Yes  | Yes   | Yes   | Yes   |
| • removable terminal at output                | Yes  | Yes  | Yes   | Yes   | Yes   |
| design of the interface for communication     | PROFINET/Ethernet: two RJ45 sockets (2-port switch)  | PROFINET/Ethernet: two RJ45 sockets (2-port switch)  | PROFINET/Ethernet: two RJ45 sockets (2-port switch)   | PROFINET/Ethernet: two RJ45 sockets (2-port switch)   | PROFINET/Ethernet: two RJ45 sockets (2-port switch)   |
| suitability for interaction modular system    | Yes  | Yes  | Yes   | Yes   | Yes   |
| width of the enclosure                        | 125 mm   | 100 mm   | 80 mm   | 125 mm  | 125 mm  |
| height of the enclosure                       | 125 mm   | 125 mm   | 125 mm  | 125 mm  | 125 mm  |
| depth of the enclosure                        | 150 mm   | 150 mm   | 150 mm  | 150 mm  | 150 mm  |
| required spacing                              |  |  |   |   |   |
| • top   | 50 mm  | 50 mm  | 50 mm   | 50 mm   | 50 mm   |
| • bottom                                      | 50 mm  | 50 mm  | 50 mm   | 50 mm   | 50 mm   |
| • left  | 0 mm   | 0 mm   | 0 mm  | 0 mm  | 0 mm  |
| • right                                       | 0 mm   | 0 mm   | 0 mm  | 0 mm  | 0 mm  |

| Article number   | 6EP3336-8MB00-2CY0  | 6EP3436-8MB00-2CY0  | 6EP3436-8SB00-2AY0  | 6EP3437-8MB00-2CY0  | 6EP3437-8SB00-2AY0  |
|--|---|---|---|---|---|
| Product  | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   | SITOP PSU8600   |
| Power supply, type                                       | 24 V/20 A/4x 5 A  | 24 V/20 A/4x 5 A  | 24 V/20 A   | 24 V/40 A/4x 10 A   | 24 V/40 A   |
| net weight   | 2.6 kg  | 2 kg  | 1.8 kg  | 2.6 kg  | 2.6 kg  |
| product feature of the enclosure housing can be lined up | Yes   | Yes   | Yes   | Yes   | Yes   |
| fastening method   | Snaps onto DIN rail EN 60715 35x15  | Snaps onto DIN rail EN 60715 35x15  | Snaps onto DIN rail EN 60715 35x15  | Snaps onto DIN rail EN 60715 35x15  | Snaps onto DIN rail EN 60715 35x15  |
| electrical accessories                                   | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600                                 | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600                                 | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600                                 | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600                                 | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600                                 |
| mechanical accessories                                   | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20                                   | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20                                   | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20                                   | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20                                   | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20                                   |
| MTBF at 40 °C  | 186 700 h   | 243 178 h   | 298 979 h   | 207 612 h   | 235 118 h   |
| other information  | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

#### Accessories

|  |                           |
|--|---------------------------|
| <b>SITOP CNX8600 4 x 5 A expansion module</b>                    | <b>6EP4436-8XB00-0CY0</b> |
| For SITOP PSU8600<br>Output: 24 V DC/4 x 5 A                     |                           |
| <b>SITOP CNX8600 4 x 10 A expansion module</b>                   | <b>6EP4437-8XB00-0CY0</b> |
| For SITOP PSU8600<br>Output: 24 V DC/4 x 10 A                    |                           |
| <b>SITOP CNX8600 8 x 2.5 A expansion module</b>                  | <b>6EP4436-8XB00-0DY0</b> |
| For SITOP PSU8600<br>Output: 24 V DC/8 x 2.5 A                   |                           |
| <b>SITOP BUF8600 100 ms buffer module</b>                        | <b>6EP4297-8HB00-0XY0</b> |
| For SITOP PSU8600<br>Buffer capacity 100 ms/40 A                 |                           |
| <b>SITOP BUF8600 300 ms buffer module</b>                        | <b>6EP4297-8HB10-0XY0</b> |
| For SITOP PSU8600<br>Buffer capacity 300 ms/40 A                 |                           |
| <b>SITOP BUF8600 4 s buffer module</b>                           | <b>6EP4293-8HB00-0XY0</b> |
| For SITOP PSU8600<br>Buffer capacity 4 s/40 A                    |                           |
| <b>SITOP BUF8600 10 s buffer module</b>                          | <b>6EP4295-8HB00-0XY0</b> |
| For SITOP PSU8600<br>Buffer capacity 10 s/40 A                   |                           |
| <b>SITOP UPS8600 UPS module</b>                                  | <b>6EP4197-8AB00-0XY0</b> |
| For SITOP PSU8600<br>Rated buffer power 960 W                    |                           |
| <b>SITOP BAT8600 battery module 380 Wh</b>                       | <b>6EP4145-8GB00-0XY0</b> |
| For SITOP UPS8600<br>With rechargeable batteries (Pb technology) |                           |
| <b>SITOP BAT8600 battery module 264 Wh</b>                       | <b>6EP4143-8JB00-0XY0</b> |
| For SITOP UPS8600<br>With LiFePO4 batteries                      |                           |
| <b>Device identification labels</b>                              | <b>3RT2900-1SB20</b>      |