

SITOP PSU6200 48 V/5 A
 SITOP PSU6200 5 A Stabilized power supply Input: 120/230 V AC
 Output: 48 V DC/5 A With diagnostics interface



| Input | |
|---|----------------------------|
| Input | 1-phase AC or DC |
| Rated voltage value V_{in} rated | 120 ... 240 V |
| Voltage range AC | 85 ... 264 V |
| Supply voltage | |
| • at DC | 110 ... 240 V |
| Input voltage | |
| • at DC | 85 ... 275 V |
| Wide-range input | Yes |
| Overvoltage resistance | 300 V AC for 30 s |
| Mains buffering | at $V_{in} = 230$ V |
| Mains buffering at I_{out} rated, min. | 46 ms; at $V_{in} = 230$ V |
| Rated line frequency 1 | 50 Hz |
| Rated line frequency 2 | 60 Hz |
| Rated line range | 47 ... 63 Hz |
| Input current | |
| • at rated input voltage 120 V | 2.2 A |
| • at rated input voltage 230 V | 1.2 A |
| Switch-on current limiting (+25 °C), max. | 6 A |

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| Built-in incoming fuse | 5 A |
| Protection in the mains power input (IEC 898) | Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) |

| Output | |
|---|---|
| Output | Controlled, isolated DC voltage |
| Number of outputs | 1 |
| Rated voltage V_{out} DC | 48 V |
| Total tolerance, static \pm | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 0.1 % |
| Residual ripple peak-peak, max. | 50 mV |
| Residual ripple peak-peak, typ. | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 60 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 40 mV |
| Adjustment range | 48 ... 56 V |
| Product function Output voltage adjustable | Yes |
| Output voltage setting | via potentiometer; max. 240 W (288 W up to 45°C) |
| Status display | Green LED for 48 V OK |
| Signaling | Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface |
| On/off behavior | Overshoot of $V_{out} < 2$ % |
| Startup delay, max. | 0.5 s |
| Voltage rise, typ. | 250 ms |
| Rated current value I_{out} rated | 5 A |
| Current range | 0 ... 5 A |
| • Note | 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K |
| Supplied active power typical | 240 W |
| Short-term overload current | |
| • on short-circuiting during the start-up typical | 6 A |
| • at short-circuit during operation typical | 6 A |
| Product feature parallel switching of outputs | can be set with DIP switch |
| Parallel switching for enhanced performance | Yes; switchable characteristic |
| Numbers of parallel switchable units for enhanced performance | 2 |

| Efficiency | |
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| Efficiency at V_{out} rated, I_{out} rated, approx. | 93.9 % |
| Power loss at V_{out} rated, I_{out} rated, approx. | 15 W |
| Power loss [W] during no-load operation maximum | 2.4 W |

| Closed-loop control | |
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| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 1 % |
| Load step setting time 10 to 90%, typ. | 4 ms |

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| Load step setting time 90 to 10%, typ. | 4 ms |
| Setting time maximum | 6 ms |
| Protection and monitoring | |
| Output overvoltage protection | < 60 V |
| Current limitation, typ. | 6 A |
| Property of the output Short-circuit proof | Yes |
| Short-circuit protection | Shutdown and periodic restart attempts |
| Overcurrent overload capability in normal operation | overload capability 150 % I _{out} rated up to 5 s/min |
| Safety | |
| Primary/secondary isolation | Yes |
| Galvanic isolation | Safety extra low output voltage V _{out} according to EN 60950-1 |
| Protection class | Class I |
| Leakage current | |
| • maximum | 3.5 mA |
| Degree of protection (EN 60529) | IP20 |
| Approvals | |
| CE mark | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| Explosion protection | - |
| FM approval | - |
| CB approval | Yes |
| Marine approval | in process: DNV GL, ABS |
| EMC | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | EN 61000-3-2 |
| Noise immunity | EN 61000-6-2 |
| environmental conditions | |
| Ambient temperature | |
| • during operation | -25 ... +70 °C |
| — Note | with natural convection |
| • during transport | -40 ... +85 °C |
| • during storage | -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | |
| Connection technology | Push-in terminals |
| Connections | |
| • Supply input | L1/+, L2/N/-; PE PushIn for 0.5 ... 4 mm ² single-core/finely stranded |
| • Output | +1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm ² |
| • Auxiliary | 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ² |

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| Width of the enclosure | 45 mm |
| Height of the enclosure | 135 mm |
| Depth of the enclosure | 125 mm |
| Required spacing | |
| • top | 45 mm |
| • bottom | 45 mm |
| • left | 0 mm |
| • right | 0 mm |
| Product feature of the enclosure housing for side-by-side mounting | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| Electrical accessories | Buffer module, redundancy module |
| Mechanical accessories | Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0 |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |