

SITOP PSU6200/1AC/12VDC/2A
 SITOP PSU6200 12 V/2 A Stabilized power supply Input: 120 - 230 V
 AC, (120 - 240 V DC) Output: 12 V DC/2 A



| 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 | 120 ... 240 V |
| input voltage | |
| • at DC | 110 ... 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. | 150 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 | 0.45 A |
| • at rated input voltage 230 V | 0.25 A |
| Switch-on current limiting (+25 °C), max. | 32 A |

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| Built-in incoming fuse | 3.15 A |
| Protection in the mains power input (IEC 898) | Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) |

Output

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| Output | Controlled, isolated DC voltage |
| number of outputs | 1 |
| Rated voltage V_{out} DC | 12 V |
| Total tolerance, static \pm | 3 % |
| Static mains compensation, approx. | 0.3 % |
| Static load balancing, approx. | 0.3 % |
| Residual ripple peak-peak, max. | 30 mV |
| Residual ripple peak-peak, typ. | 20 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 20 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 10 mV |
| Adjustment range | 10.5 ... 12.9 V |
| product function output voltage adjustable | Yes |
| Output voltage setting | via potentiometer; max. 24 W |
| Status display | Green LED for 24 V OK |
| On/off behavior | Overshoot of V_{out} approx. 3 % |
| Startup delay, max. | 1 s |
| Voltage rise, typ. | 50 ms |
| Rated current value I_{out} rated | 2 A |
| Current range | 0 ... 2 A |
| • Note | +60 ... +70 °C: Derating 2.5%/K |
| supplied active power typical | 24 W |
| short-term overload current | |
| • on short-circuiting during the start-up typical | 2 A |
| • at short-circuit during operation typical | 2 A |

Efficiency

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| Efficiency at V_{out} rated, I_{out} rated, approx. | 83.3 % |
| Power loss at V_{out} rated, I_{out} rated, approx. | 5 W |
| power loss [W] during no-load operation maximum | 0.8 W |

Closed-loop control

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| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 4 % |
| Load step setting time 10 to 90%, typ. | 2 ms |
| Load step setting time 90 to 10%, typ. | 2 ms |
| setting time maximum | 3 ms |

Protection and monitoring

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| Output overvoltage protection | < 20 V |
| Current limitation, typ. | 2.8 A |

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| property of the output short-circuit proof | Yes |
| Short-circuit protection | Shutdown and periodic restart attempts |

Safety

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| Primary/secondary isolation | Yes |
| galvanic isolation | Safety extra low output voltage V_{out} according to EN 60950-1 |
| Protection class | Class I |
| leakage current <ul style="list-style-type: none"> • maximum | 3.5 mA |
| Degree of protection (EN 60529) | IP20 |

Approvals

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| 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 | - |
| certificate of suitability NEC Class 2 | Yes |
| FM approval | - |
| CB approval | Yes |
| Regulatory Compliance Mark (RCM) | No |
| Marine approval | in process: DNV GL, ABS |

EMC

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| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | EN 61000-3-2 |
| Noise immunity | EN 61000-6-2 |

environmental conditions

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| ambient temperature <ul style="list-style-type: none"> • during operation — Note • during transport • during storage | -25 ... +70 °C with natural convection -40 ... +85 °C -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation |

Mechanics

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| Connection technology | Push-in terminals |
| Connections <ul style="list-style-type: none"> • Supply input • Output • Auxiliary | L1/+, L2/N/-; PE PushIn for 0.5 ... 2.5 mm ² single-core/finely stranded +1, -1, -2: PushIn for 0.5 ... 2.5 mm ² - |
| width of the enclosure | 25 mm |
| height of the enclosure | 100 mm |
| depth of the enclosure | 88 mm |
| required spacing | |

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|--|---|
| <ul style="list-style-type: none"> • top • bottom • left • right | <p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p> |
| Weight, approx. | 0.2 kg |
| product feature of the enclosure housing for side-by-side mounting | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| electrical accessories | 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) |