



SITOP PSU6200/1AC/12VDC/2A

SITOP PSU6200 12 V/2 A stabilized power supply input: 120 - 240 V AC (120 - 240 V DC) output: 12 V DC/2 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP3321-7SB00-0AX0>

### input

|  |  |
|--|--|
| type of the power supply network   | 1-phase AC or DC   |
| supply voltage at AC   |  |
| • minimum rated value  | 120 V  |
| • maximum rated value  | 240 V  |
| • initial value  | 85 V   |
| • full-scale value   | 264 V  |
| supply voltage at DC   | 120 ... 240 V  |
| input voltage at DC  | 110 ... 275 V  |
| wide range input   | Yes  |
| overvoltage overload capability  | 300 V AC for 30 s  |
| buffering time for rated value of the output current in the event of power failure minimum | 150 ms   |
| operating condition of the mains buffering   | at $V_{in} = 240$ V  |
| line frequency   | 50/60 Hz   |
| line frequency   | 47 ... 63 Hz   |
| input current  |  |
| • at rated input voltage 120 V   | 0.45 A   |
| • at rated input voltage 240 V   | 0.25 A   |
| current limitation of inrush current at 25 °C maximum                                      | 32 A   |
| fuse protection type   | 3.15 A   |
| fuse protection type in the feeder   | 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

|  |                                 |
|--|---------------------------------|
| voltage curve at output                          | Controlled, isolated DC voltage |
| number of outputs                                | 1                               |
| output voltage at DC rated value                 | 12 V                            |
| output voltage                                   |                                 |
| • at output 1 at DC rated value                  | 12 V                            |
| output voltage adjustable                        | Yes; via potentiometer          |
| adjustable output voltage                        | 10.5 ... 12.9 V; max. 24 W      |
| relative overall tolerance of the voltage        | 3 %                             |
| relative control precision of the output voltage |                                 |
| • on slow fluctuation of input voltage           | 0.3 %                           |
| • on slow fluctuation of ohm loading             | 0.3 %                           |
| residual ripple                                  |                                 |
| • maximum  | 30 mV                           |
| • typical  | 20 mV                           |

|  |   |
|--|---|
| voltage peak   |   |
| • maximum  | 20 mV   |
| • typical  | 10 mV   |
| display version for normal operation   | Green LED for 24 V OK   |
| behavior of the output voltage when switching on   | Overshoot of Vout approx. 3 %                                 |
| response delay maximum   | 1 s   |
| voltage increase time of the output voltage  |   |
| • typical  | 50 ms   |
| output current   |   |
| • rated value  | 2 A   |
| • rated range  | 0 ... 2 A   |
| 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   |
| bridging of equipment  | No  |
| <b>efficiency</b>  |   |
| efficiency in percent  | 83.3 %  |
| power loss [W]   |   |
| • at rated output voltage for rated value of the output current typical                            | 5 W   |
| • during no-load operation maximum   | 0.8 W   |
| <b>closed-loop control</b>   |   |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 4 %   |
| setting time   |   |
| • load step 10 to 90% typical  | 2 ms  |
| • load step 90 to 10% typical  | 2 ms  |
| • maximum  | 3 ms  |
| <b>protection and monitoring</b>   |   |
| design of the overvoltage protection   | < 20 V  |
| property of the output short-circuit proof   | Yes   |
| design of short-circuit protection   | Shutdown and periodic restart attempts                        |
| • typical  | 2.8 A   |
| <b>safety</b>  |   |
| galvanic isolation between input and output  | Yes   |
| galvanic isolation   | ES1 output voltage Vout according to EN 62368-1               |
| operating resource protection class  | Class I   |
| leakage current  |   |
| • maximum  | 3.5 mA  |
| protection class IP  | IP20  |
| <b>EMC</b>   |   |
| standard   |   |
| • for emitted interference   | EN 55022 Class B  |
| • for mains harmonics limitation   | EN 61000-3-2  |
| • for interference immunity  | EN 61000-6-2  |
| <b>standards, specifications, approvals</b>  |   |
| certificate of suitability   |   |
| • CE marking   | Yes   |
| • UL approval  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| • UKCA marking   | Yes   |
| • EAC approval   | Yes   |
| • Regulatory Compliance Mark (RCM)   | Yes   |
| • NEC Class 2  | Yes; according to UL1310, File E151273                        |
| • SEMI F47   | Yes   |
| type of certification  |   |
| • BIS  | Yes; R-41183539   |
| • CB-certificate   | Yes   |
| <b>standards, specifications, approvals hazardous environments</b>                                 |   |

|   |   |
|---|---|
| certificate of suitability  |   |
| • IECEx   | No  |
| • ATEX  | No  |
| • ULhazloc approval   | No  |
| • FM registration   | No  |
| <b>standards, specifications, approvals marine classification</b>             |   |
| shipbuilding approval   | Yes   |
| Marine classification association   |   |
| • American Bureau of Shipping Europe Ltd. (ABS)                               | Yes   |
| • French marine classification society (BV)                                   | No  |
| • Det Norske Veritas (DNV)  | Yes   |
| • Lloyds Register of Shipping (LRS)   | No  |
| <b>standards, specifications, approvals Environmental Product Declaration</b> |   |
| Environmental Product Declaration   | Yes   |
| global warming potential [CO2 eq]   |   |
| • total   | 140.9 kg  |
| • during manufacturing  | 5.2 kg  |
| • during operation  | 135.6 kg  |
| • after end of life   | 0.15 kg   |
| <b>ambient conditions</b>   |   |
| ambient temperature   |   |
| • during operation  | -25 ... +70 °C; with natural convection   |
| • during transport  | -40 ... +85 °C  |
| • during storage  | -40 ... +85 °C  |
| environmental category according to IEC 60721                                 | Climate class 3K3, 5 ... 95% no condensation  |
| <b>connection method</b>  |   |
| type of electrical connection   | push-in terminals   |
| • at input  | L1/+, L2/N/-, PE: push-in for 0.5 ... 2.5 mm² single-core/finely stranded                         |
| • at output   | +1, -1, -2: push-in for 0.5 ... 2.5 mm²   |
| • for auxiliary contacts  | -   |
| <b>mechanical data</b>  |   |
| width × height × depth of the enclosure                                       | 25 × 100 × 88 mm  |
| installation width × mounting height  | 25 mm × 200 mm  |
| required spacing  |   |
| • top   | 50 mm   |
| • bottom  | 50 mm   |
| • left  | 0 mm  |
| • right   | 0 mm  |
| fastening method  | Snaps onto DIN rail EN 60715 35x7.5/15  |
| • DIN-rail mounting   | Yes   |
| • S7 rail mounting  | No  |
| • wall mounting   | No  |
| housing can be lined up   | Yes   |
| net weight  | 0.2 kg  |
| <b>accessories</b>  |   |
| electrical accessories  | Redundancy module   |
| mechanical accessories  | Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0   |
| <b>further information internet links</b>                                     |   |
| internet link   |   |
| • to website: Industry Mall   | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                 |
| • to web page: selection aid TIA Selection Tool                               | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                   |
| • to web page: power supplies   | <a href="https://siemens.com/sitop">https://siemens.com/sitop</a>                                 |
| • to website: CAX-Download-Manager  | <a href="https://siemens.com/cax">https://siemens.com/cax</a>                                     |
| • to website: Industry Online Support   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>           |
| <b>additional information</b>   |   |
| other information   | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| <b>security information</b>   |   |
| security information  | Siemens provides products and solutions with industrial cybersecurity functions                   |

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| Classifications |        |         |                |
|-----------------|--------|---------|----------------|
|                 |        | Version | Classification |
|                 | eClass | 14      | 27-04-07-01    |
|                 | eClass | 12      | 27-04-07-01    |
|                 | eClass | 9.1     | 27-04-07-01    |
|                 | eClass | 9       | 27-04-07-01    |
|                 | eClass | 8       | 27-04-90-02    |
|                 | eClass | 7.1     | 27-04-90-02    |
|                 | eClass | 6       | 27-04-90-02    |
|                 | ETIM   | 10      | EC002540       |
|                 | ETIM   | 9       | EC002540       |
|                 | ETIM   | 8       | EC002540       |
|                 | ETIM   | 7       | EC002540       |
|                 | IDEA   | 4       | 4130           |
|                 | UNSPSC | 15      | 39-12-10-04    |

Approvals Certificates





General Product Approval



[Manufacturer Declaration](#)[Declaration of Conformity](#)

General Product Approval

Maritime application

[China RoHS](#)[BIS CRS](#)

Environment

