SIEMENS

## Data sheet 6EP3333-7LB00-0AX0



SITOP PSU6200/1AC/24VDC/3.7A/NECclass2

SITOP PSU6200 3.7 A NEC class II stabilized power supply input: 120 - 240 V AC (120 - 240 V DC) output: 24 V DC/3.7 A

| | |
|---|---|
| **General information** | |
| Technical Product Detail Page | https://i.siemens.com/1P6EP3333-7LB00-0AX0 |
| product brand name | SITOP |
| product type designation | PSU6200 |
| product designation | Power supply SITOP PSU6200 |
| type of current supply | 24 V/3.7 A |
| **input** | |
| type of the power supply network | 1-phase AC or DC |
| phase number | 1 |
| voltage curve at input | AC/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 | 99 ... 275 V |
| supply voltage | |
| ● at 50 Hz | 240 V |
| ● at 60 Hz | 120 V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| 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 | 90 ms |
| operating condition of the mains buffering | at Vin = 240 V |
| input current | |
| ● at rated input voltage 120 V | 1.5 A |
| ● at rated input voltage 240 V | 0.8 A |
| current limitation of inrush current at 25 °C maximum | 29 A |
| fuse protection type | 3.15 A |
| fuse protection type in the feeder | Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) |
| **output** | |
| voltage curve at output | Controlled, isolated DC voltage |
| product function output voltage controlled | Yes |
| product function output voltage stabilized | Yes |
| number of outputs | 1 |


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| output voltage at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC | 24 V |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage | 24 ... 28 V; max. 89 W |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| ● on slow fluctuation of input voltage | 0.2 % |
| ● on slow fluctuation of ohm loading | 0.3 % |
| residual ripple | |
| ● maximum | 30 mV |
| ● typical | 20 mV |
| voltage peak | |
| ● maximum | 100 mV |
| ● typical | 60 mV |
| display version for normal operation | Green LED for 24 V OK |
| type of signal at output | Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. |
| behavior of the output voltage when switching on | Overshoot of Vout < 2 % |
| response delay maximum | 0.5 s |
| voltage increase time of the output voltage | |
| ● typical | 100 ms |
| output current | |
| ● rated value | 3.7 A |
| ● rated range | 0 ... 3.7 A; +60 ... +70 °C: Derating 3%/K |
| supplied active power typical | 89 W |
| short-term overload current | |
| ● on short-circuiting during the start-up typical | 3.7 A |
| ● at short-circuit during operation typical | 3.7 A |
| bridging of equipment | No |
| **efficiency** | |
| efficiency in percent | 89.3 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 11 W |
| ● during no-load operation maximum | 2.2 W |
| **closed-loop control** | |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 2 % |
| setting time | |
| ● load step 10 to 90% typical | 2 ms |
| ● load step 90 to 10% typical | 2 ms |
| ● maximum | 3 ms |
| **protection and monitoring** | |
| design of the overvoltage protection | < 32 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Shutdown and periodic restart attempts |
| ● typical | 3.7 A |
| **safety** | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7) |
| operating resource protection class | Class I |
| leakage current | |
| ● maximum | 3.5 mA |
| protection class IP | IP20 |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 55022 Class B |


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| ● for mains harmonics limitation | EN 61000-3-2 |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| 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-41188271 |
| ● CB-certificate | Yes |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |
| ● IECEx | No |
| ● ATEX | No |
| ● ULhazloc approval | No |
| ● FM registration | No |
| **standards, specifications, approvals marine classification** | |
| 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 |
| **standards, specifications, approvals Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 296.7 kg |
| ● during manufacturing | 18 kg |
| ● during operation | 278.2 kg |
| ● after end of life | 0.3 kg |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| **connection method** | |
| type of electrical connection | push-in terminals |
| ● at input | L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm² single-core/finely stranded |
| ● at output | +1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm² |
| ● for auxiliary contacts | 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm² |
| **mechanical data** | |
| width × height × depth of the enclosure | 35 × 135 × 125 mm |
| installation width × mounting height | 35 mm × 225 mm |
| required spacing | |
| ● top | 45 mm |
| ● bottom | 45 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 |


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|---|---|
| net weight | 0.7 kg |
| **accessories** | |
| electrical accessories | Buffer module, redundancy module |
| mechanical accessories | Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0 |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: power supplies | https://siemens.com/sitop |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| identification link | Yes; acc. to IEC 61406-1:2022 |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-04-07-01 |
| 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**

| Environmental Product Declaration | |
|---|---|
| ● global warming potential [CO2 eq] / during manufacturing | 18 kg |
| ● global warming potential [CO2 eq] / during operation | 278.2 kg |
| ● global warming potential [CO2 eq] / after end of life | 0.3 kg |
| ● global warming potential [CO2 eq] / total | 296.7 kg |

| Environment | General Product Approval |
|---|---|


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Manufacturer Declaration

Declaration of Conformity

| General Product Approval | | | | | Maritime application |
|---|---|---|---|---|---|
| China RoHS | | | | BIS CRS | |

| Maritime application |
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**last modified:** 8/29/2026


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