



SIMATIC PM1207/1AC/24VDC/5A

SIMATIC S7-1200 power module PM 1207 24 V/5 A stabilized power supply input: 120 - 240 V AC/DC output: 24 V DC/5 A with diagnostic interface

| 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 | 99 ... 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 | 20 ms |
| operating condition of the mains buffering | at $V_{in} = 120/240$ V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| • at rated input voltage 120 V | 1.9 A |
| • at rated input voltage 240 V | 1.1 A |
| current limitation of inrush current at 25 °C maximum | 45 A |
| I ² t value maximum | 1.8 A ² s |
| fuse protection type | internal |
| fuse protection type in the feeder | recommended miniature circuit breaker: 16 A characteristic B/C for UL489-listed/Cat. Div. Q |
| output | |
| voltage curve at output | Controlled, isolated DC voltage |
| number of outputs | 1 |
| output voltage at DC rated value | 24 V |
| output voltage | |
| • at output 1 at DC rated value | 24 V |
| output voltage adjustable | No |
| relative overall tolerance of the voltage | 1.5 % |
| relative control precision of the output voltage | |
| • on slow fluctuation of input voltage | 0.1 % |
| • on slow fluctuation of ohm loading | 0.2 % |
| residual ripple | |
| • maximum | 150 mV |
| voltage peak | |
| • maximum | 240 mV |
| display version for normal operation | Green LED for 24 V OK |

| | |
|--|--|
| behavior of the output voltage when switching on | Overshoot of Vout < 1 % |
| response delay maximum | 2 s |
| voltage increase time of the output voltage <ul style="list-style-type: none"> • typical | 220 ms |
| output current <ul style="list-style-type: none"> • rated value • rated range | 5 A 0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K |
| supplied active power typical | 120 W |
| short-term overload current <ul style="list-style-type: none"> • on short-circuiting during the start-up typical • at short-circuit during operation typical | 6 A 6 A |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| efficiency | |
| efficiency in percent | 88 % |
| power loss [W] <ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical • during no-load operation maximum | 15 W 3 W |
| closed-loop control | |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 1.5 % |
| setting time <ul style="list-style-type: none"> • load step 10 to 90% typical • load step 90 to 10% typical • maximum | 1 ms 1 ms 1 ms |
| protection and monitoring | |
| design of the overvoltage protection | < 33 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| response value current limitation | 5.5 A |
| interfaces | |
| product function communication function | Yes |
| design of the interface | unidirectional, can only send data to the higher-level control and analysis system |
| safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 |
| operating resource protection class | Class I |
| leakage current <ul style="list-style-type: none"> • maximum | 3.5 mA |
| protection class IP | IP20 |
| EMC | |
| standard <ul style="list-style-type: none"> • for emitted interference • for mains harmonics limitation • for interference immunity | EN 55032 EN 61000-3-2 EN 61000-6-2 |
| standards, specifications, approvals | |
| certificate of suitability <ul style="list-style-type: none"> • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) | Yes Yes; cULus-listed (UL 61010, CSA C22.2 No. 107.1), File E143289 Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1) Yes Yes Yes |
| type of certification <ul style="list-style-type: none"> • BIS • CB-certificate | in preparation Yes |
| standards, specifications, approvals hazardous environments | |

| | |
|---|--|
| certificate of suitability | |
| • IECEx | No |
| • ULhazloc approval | No |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | Yes |
| Marine classification association | |
| • Det Norske Veritas (DNV) | Yes |
| standards, specifications, approvals Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO ₂ eq] | |
| • total | 419.2 kg |
| • during manufacturing | 8.5 kg |
| • during operation | 410.3 kg |
| • after end of life | 0.31 kg |
| ambient conditions | |
| 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 |
| connection method | |
| type of electrical connection | push-in terminal block can be removed |
| • at input | L, N, PE: 1 push-in terminal can be removed as terminal block for 0.5 ... 2.5 mm ² |
| • at output | L+, M: 2 push-in terminals can be removed as terminal block for 0.5 ... 2.5 mm ² |
| removable terminal at input | Yes |
| removable terminal at output | Yes |
| design of the interface for communication | 13, 14 (contacts): 1 push-in terminal can be removed as terminal block for 0.2 ... 1.5 mm ² |
| mechanical data | |
| width × height × depth of the enclosure | 70 × 125 × 100 mm |
| installation width × mounting height | 70 mm × 175 mm |
| required spacing | |
| • top | 25 mm |
| • bottom | 25 mm |
| • left | 0 mm |
| • right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting |
| • DIN-rail mounting | Yes |
| • S7 rail mounting | No |
| • wall mounting | Yes |
| housing can be lined up | Yes |
| net weight | 0.45 kg |
| 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 | 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 |

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)



Maritime application

Environment



last modified:

5/23/2025