



SIMATIC PM1207/1AC/24VDC/5A/EX

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

Technical Product Detail Page

<https://i.siemens.com/1P6EP3333-4SC00-3AX0>

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	

<ul style="list-style-type: none"> • maximum 	240 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of $V_{out} < 1\%$
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 V_{out} according to EN 60950-1
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 • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • CCC approval 	Yes Yes; cULus-listed (UL 61010, CSA C22.2 No. 107.1), File E143289 Yes Yes Yes Yes
type of certification	

<ul style="list-style-type: none"> • BIS • CB-certificate 	<p>in preparation</p> <p>Yes</p>
standards, specifications, approvals hazardous environments	
<p>certificate of suitability</p> <ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • UKEX • CCC for hazardous zone according to GB standard 	<p>Yes; IECEx II 3G Ex ec IIC (T3 / T4)* Gc (* -25°C ≤ Tamb ≤ 55°C T4 and -25°C ≤ Tamb ≤ 70°C T3)</p> <p>Yes; ATEX (EX) II 3G Ex ec IIC (T3 / T4)* Gc (* -25°C ≤ Tamb ≤ 55°C T4 and -25°C ≤ Tamb ≤ 70°C T3)</p> <p>Yes; Class I, Div. 2, Group ABCD, Tx (T4... T3), File E330455</p> <p>Yes</p> <p>available soon</p>
standards, specifications, approvals marine classification	
<p>shipbuilding approval</p> <p>Marine classification association</p> <ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	<p>Yes</p> <p>Yes</p>
standards, specifications, approvals Environmental Product Declaration	
<p>Environmental Product Declaration</p> <p>global warming potential [CO2 eq]</p> <ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>Yes</p> <p>419.2 kg</p> <p>8.5 kg</p> <p>410.3 kg</p> <p>0.31 kg</p>
ambient conditions	
<p>ambient temperature</p> <ul style="list-style-type: none"> • during operation • during transport • during storage <p>environmental category according to IEC 60721</p>	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>Climate class 3K3, 5 ... 95% no condensation</p>
connection method	
<p>type of electrical connection</p> <ul style="list-style-type: none"> • at input • at output <p>removable terminal at input</p> <p>removable terminal at output</p> <p>design of the interface for communication</p>	<p>push-in terminal block can be removed</p> <p>L, N, PE: 1 push-in terminal can be removed as terminal block for 0.5 ... 2.5 mm²</p> <p>L+, M: 2 push-in terminals can be removed as terminal block for 0.5 ... 2.5 mm²</p> <p>Yes</p> <p>Yes</p> <p>13, 14 (contacts): 1 push-in terminal can be removed as terminal block for 0.2 ... 1.5 mm²</p>
mechanical data	
<p>width × height × depth of the enclosure</p> <p>installation width × mounting height</p> <p>required spacing</p> <ul style="list-style-type: none"> • top • bottom • left • right <p>fastening method</p> <ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting <p>housing can be lined up</p> <p>net weight</p>	<p>70 × 125 × 100 mm</p> <p>70 mm × 175 mm</p> <p>25 mm</p> <p>25 mm</p> <p>0 mm</p> <p>0 mm</p> <p>Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>0.45 kg</p>
further information internet links	
<p>internet link</p> <ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support <p>identification link</p>	<p>https://mall.industry.siemens.com</p> <p>https://www.siemens.com/tstcloud</p> <p>https://siemens.com/sitop</p> <p>https://siemens.com/cax</p> <p>https://support.industry.siemens.com</p> <p>Yes; acc. to IEC 61406-1:2022</p>
additional information	

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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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)
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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

Approvals Certificates

General Product Approval	For use in hazardous locations
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[Manufacturer Declaration](#)



Maritime application Environment



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