



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

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
$I^2t$ value maximum	1.8 A <sup>2</sup> 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 $V_{out} < 1\%$
response delay maximum	2 s
voltage increase time of the output voltage <ul style="list-style-type: none"> <li>• typical</li> </ul>	220 ms
output current <ul style="list-style-type: none"> <li>• rated value</li> <li>• rated range</li> </ul>	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"> <li>• on short-circuiting during the start-up typical</li> <li>• at short-circuit during operation typical</li> </ul>	6 A 6 A
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
<b>efficiency</b>	
efficiency in percent	88 %
power loss [W] <ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> <li>• during no-load operation maximum</li> </ul>	15 W 3 W
<b>closed-loop control</b>	
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"> <li>• load step 10 to 90% typical</li> <li>• load step 90 to 10% typical</li> <li>• maximum</li> </ul>	1 ms 1 ms 1 ms
<b>protection and monitoring</b>	
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
<b>interfaces</b>	
product function communication function	Yes
design of the interface	unidirectional, can only send data to the higher-level control and analysis system
<b>safety</b>	
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"> <li>• maximum</li> </ul>	3.5 mA
protection class IP	IP20
<b>EMC</b>	
standard <ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for mains harmonics limitation</li> <li>• for interference immunity</li> </ul>	EN 55032 EN 61000-3-2 EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability <ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• CSA approval</li> <li>• UKCA marking</li> <li>• EAC approval</li> <li>• Regulatory Compliance Mark (RCM)</li> <li>• CCC approval</li> </ul>	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 Yes Yes
type of certification <ul style="list-style-type: none"> <li>• BIS</li> <li>• CB-certificate</li> </ul>	in preparation Yes
<b>standards, specifications, approvals hazardous environments</b>	

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



For use in hazardous locations



Maritime application



Environment



last modified:

8/19/2025