



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

Technical Product Detail Page

<https://i.siemens.com/1P6EP3333-4SB00-3AX0>

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 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 • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) 	Yes Yes; cULus-listed (UL 61010, CSA C22.2 No. 107.1), File E143289 Yes Yes Yes
type of certification <ul style="list-style-type: none"> • BIS 	in preparation

<ul style="list-style-type: none"> • CB-certificate 	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
<ul style="list-style-type: none"> • ULhazloc approval 	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	419.2 kg
<ul style="list-style-type: none"> • during manufacturing 	8.5 kg
<ul style="list-style-type: none"> • during operation 	410.3 kg
<ul style="list-style-type: none"> • after end of life 	0.31 kg
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +70 °C; with natural convection
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • at input 	L, N, PE: 1 push-in terminal can be removed as terminal block for 0.5 ... 2.5 mm ²
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • top 	25 mm
<ul style="list-style-type: none"> • bottom 	25 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting
<ul style="list-style-type: none"> • DIN-rail mounting 	Yes
<ul style="list-style-type: none"> • S7 rail mounting 	No
<ul style="list-style-type: none"> • wall mounting 	Yes
housing can be lined up	Yes
net weight	0.45 kg
further information internet links	
internet link	
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to web page: power supplies 	https://siemens.com/sitop
<ul style="list-style-type: none"> • to website: CAX-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> • 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

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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

[Manufacturer Declaration](#)



[China RoHS](#)



Maritime application

Environment



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