SIEMENS

6EP1332-1SH71 **Data sheet**



SIMATIC PM1207/1AC/24VDC/2.5A

SIMATIC S7-1200 Power Module PM1207 Stabilized power supply input: 120/230 V AC, output: DC 24 V/2,5 A

Input

type of the power supply network

supply voltage at AC

• initial value

supply voltage

- 1 at AC rated value
- 2 at AC rated value

input voltage

- 1 at AC
- 2 at AC

design of input wide range input

overvoltage overload capability

operating condition of the mains buffering

buffering time for rated value of the output current in the

event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency

input current

- at rated input voltage 120 V
- at rated input voltage 230 V

current limitation of inrush current at 25 °C maximum

duration of inrush current limiting at 25 °C

maximum

12t value maximum

fuse protection type

• in the feeder

1-phase AC

Automatic range selection

120 V

230 V

85 ... 132 V

176 ... 264 V

2.3 × Vin rated, 1.3 ms

at Vin = 93/187 V

20 ms

at Vin = 93/187 V

50 Hz

60 Hz

47 ... 63 Hz

1.2 A

0.67 A

13 A

3 ms

0.5 A²·s

T 3,15 A/250 V (not accessible)

Recommended miniature circuit breaker: 16 A characteristic B or 10 A

characteristic C

Output

voltage curve at output

output voltage at DC rated value

output voltage

• at output 1 at DC rated value

relative overall tolerance of the voltage

relative control precision of the output voltage

• on slow fluctuation of input voltage

• on slow fluctuation of ohm loading

residual ripple

voltage peak

• maximum

Controlled, isolated DC voltage

24 V

24 V

3 %

0.1 %

0.2 %

150 mV

- manyimay ma	240
• maximum	240 mV
product function output voltage adjustable	No
type of output voltage setting	-
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	6 s; 2 s at 230 V, 6 s at 120 V
voltage increase time of the output voltage	
typical	10 ms
output current	
rated value	2.5 A
rated range	0 2.5 A
supplied active power typical	60 W
short-term overload current	
 on short-circuiting during the start-up typical 	6 A
 at short-circuit during operation typical 	6 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	100 ms
 at short-circuit during operation 	100 ms
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	83 %
power loss [W]	
at rated output voltage for rated value of the output	12 W
current typical	· - ··
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical	0.5 /0
relative control precision of the output voltage load step of	3 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	5 ms
● load step 100 to 50% typical	5 ms
setting time	
maximum	5 ms
Protection and monitoring	
	22 V
design of the overvoltage protection	< 33 V 2.65 A
response value current limitation typical	
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	2.7 A
display version for overload and short circuit	•
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
maximum	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	
•	Yes
CE marking Ul approval	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File
004	E151273
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File
	E151273
 cCSAus, Class 1, Division 2 	No
• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
certificate of suitability	

 relating to ATEX IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 IECEx Yes; IECEx Ex nA nC IIC T4 Gc • NEC Class 2 No • ULhazloc approval Yes • FM registration Yes; Class I, Div. 2, Group ABCD, T4 type of certification CB-certificate certificate of suitability EAC approval Yes certificate of suitability shipbuilding approval Yes shipbuilding approval ABS, BV, DNV GL, LRS, NK Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) Yes DNV GL Yes • Lloyds Register of Shipping (LRS) Yes Nippon Kaiji Kyokai (NK) Yes **EMC** standard EN 55022 Class B • for emitted interference • for mains harmonics limitation not applicable • for interference immunity EN 61000-6-2 environmental conditions ambient temperature · during operation 0 ... 60 °C; with natural convection during transport -40 ... +85 °C -40 ... +85 °C during storage environmental category according to IEC 60721 Climate class 3K3, 5 ... 95% no condensation type of electrical connection screw-type terminals • at input L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² at output L+, M: 2 screw terminals each for 0.5 ... 2.5 mm2 • for auxiliary contacts width of the enclosure 70 mm 100 mm height of the enclosure depth of the enclosure 75 mm required spacing 20 mm top 20 mm bottom left 0 mm right 0 mm net weight 0.3 kg product feature of the enclosure housing can be lined up fastening method Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting MTBF at 40 °C 1 492 537 h other information Specifications at rated input voltage and ambient temperature +25 °C



(unless otherwise specified)