SIEMENS

Data sheet

6EP1332-1SH71



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

voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage 24 V • at output 1 at DC rated value 24 V relative overall tolerance of the voltage 3 % relative control precision of the output voltage 0.1 % • on slow fluctuation of input voltage 0.2 % residual ripple 150 mV	Input	
 initial value Automatic range selection supply voltage 1 at AC rated value 2 at AC rated value 2 at AC rated value 2 at AC 2 at AC rated value 3 at AC 2 at AC 4 at AC 4 at AC 5 132 V 2 at AC 6 at AC 7 at AC 8 5 132 V 2 at AC 2 at AC 1 at AC 2 at AC 1 at AC 2 at AC 4 at at AC 4 at rated input voltage 120 V 5 A*s 	type of the power supply network	1-phase AC
supply voltage in the Controll • 1 at AC rated value 120 V • 2 at AC rated value 230 V input voltage 85 132 V • 1 at AC 85 132 V • 2 at AC 176 264 V design of input wide range input No overvoltage overload capability 2.3 × Vin rated, 1.3 ms operating condition of the mains buffering at Vin = 93/187 V buffering time for rated value of the output current in the event of power fallure minimm 20 ms operating condition of the mains buffering at Vin = 93/187 V line frequency 47 63 Hz • 1 rated value 60 Hz • 1 rated value 60 Hz • 1 rated input voltage 230 V 6.67 A current initiation of inrush current at 25 °C maximum 13 A duration of inrush current at 25 °C maximum 3 ms izt value maximum 0.5 A ² s fuse protection type T, 315 A/250 V (not accessible) • in the feeder Controlled, isolated DC voltage • at output 1 at DC rated value 24 V • output voltage at DC rated value 24 V • output 1 at DC rated value 24 V • at output 1 at DC rated value 24 V • on slow fluctuation of input voltage 3 %	supply voltage at AC	
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 on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 150 mV 	relative overall tolerance of the voltage	3 %
 on slow fluctuation of ohm loading residual ripple maximum 150 mV 	relative control precision of the output voltage	
 residual ripple maximum 150 mV 	 on slow fluctuation of input voltage 	0.1 %
• maximum 150 mV	 on slow fluctuation of ohm loading 	0.2 %
	residual ripple	
	• maximum	150 mV
voltage peak	voltage peak	

• 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
	0 A
duration of overloading capability for excess current	100 ms
 on short-circuiting during the start-up 	
at short-circuit during operation	100 ms
product feature	Nee.
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	
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	
design of the overvoltage protection	< 33 V
response value current limitation typical	2.65 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
0	274
typical display version for overlead and short sizewit	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 	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
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	Yes
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) 	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 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
 during storage 	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
● at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
 at output 	L+, M: 2 screw terminals each for 0.5 2.5 mm ²
 for auxiliary contacts 	-
width of the enclosure	70 mm
height of the enclosure	100 mm
depth of the enclosure	75 mm
required spacing	
• top	20 mm
bottom	20 mm
• left	0 mm
● right	0 mm
net weight	0.3 kg
product feature of the enclosure housing can be lined up	Yes
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)

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