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

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
1 at AC rated value	120 V
2 at AC rated value	230 V
input voltage	
• 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 failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 V
line frequency	
1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	1.2 A
at rated input voltage 230 V	0.67 A
current limitation of inrush current at 25 °C maximum	13 A
duration of inrush current limiting at 25 °C	
maximum	3 ms
I2t value maximum	0.5 A²-s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
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

- maximum product function output voltage adjustable No Green LED for 24 V OK Deservation for normal operation Green LED for 24 V OK Deservation for normal operation Green LED for 24 V OK Deservation of the output voltage when workfing on No overathood of Your (soft start) response delay maximum 6 s; 2 s at 230 V, 9 s at 120 V voltage increase time of the output voltage increase time of the output voltage (soft start) on the output carent and value 2.5 A soft start or a start value 2.5 A soft start value 3.5 A soft start value 4.5 A start value 4.5 A start value 4.5 A start value 4.5 A soft start value 4.5 A start value 5.5 A start value 6.5 A start value 6.5		
product function output voltage adjustable type of output voltage setting display ventant for normal operation behavior of the output voltage when switching on solventhood of the output voltage increase time of the output voltage • typical • typical • related value • relate	voltage peak	040 \
Upped od dubti voltage setting deplay version for normal operation Deplay version for normal operation Offices LED for 24 V CK No eversion of Vous (soft start) response delay maximum 0 8 x 2 s x 120 V, 9 s at 120 V Voltage increase time of the dubtiv voltage • typical Output current • ratio value • ratiod		
Implementation for normal operation Scenar LED for 24 V OK	· · · · · · · · · · · · · · · · · · ·	No
Internation of the colput voltage when switching on Size 3 at 230 V; 6 s at 120 V	7	-
response delay maximum 6 s; 2 s at 230 V, 6 s at 120 V	•	
vibrical increases time of the output voltage	· · · · · · · · · · · · · · · · · · ·	
• lypical output current • rated value • on short-circuith during operation lypical • at short-circuit during operation lypical • at short-circuit during operation lypical • an on short-circuiting during the start-up typical • an other circuiting during the start-up typical • an on short-circuiting during the start-up typical • an on short-circuiting during the start-up • at short-circuit during operation • bridging of equipment • bridging of equipment resources for increasing the power • bridging of equipment resources for increasing the power • bridging of equipment resources for increasing the power • bridging of equipment resources for increasing the power to still the power loss [W] • at rated output voltage for rated value of the output current typical increased by the power loss [W] • at rated output voltage for rated value of the output current typical increased by the power loss [W] • at rated output voltage yet yet 1-15% typical relative control precision of the output voltage with raped (fuction of the input voltage) • load step 50 to 100% typical • maximum 5 ms **Cessign of the output short-circuit protection • typical • typical • typical • typical • yet count current RMS value • typical • yet count current RMS value • typical • yet count current characteristic enduring short circuit current RMS value • typical • yet carried the count output and output • yet carried to suitability • CE marking • CE marking • UL approval • CSA approval • NEC Class 2 **Yes, CULus-Listed (UL 508, CSA C222 No. 107.1), File E197258, cURus-Recognized (UL 6980-1, CSA C222 No. 6099-1)-File E151273 *Yes, CULus-Listed (US 508, CSA C222 No. 6099-1)-File E151273 *Yes, CULus-Lis	·	6 s; 2 s at 230 V, 6 s at 120 V
output ournert • rated value 2.5 A • rated value 02 5 A supplied active power typical 60 W • on short-circuling during the start-up typical 6 A • at short-circult during operation typical 6 A • on short-circulting during the start-up 100 ms • on short-circult during operation 100 ms • on short-circulting during the start-up 100 ms • at short-circult during operation 2 • bridging of equipment Yes • unmore of parallel-witched equipment resources for increasing 2 2 • runnbard of parallel-witched equipment resources for increasing 2 2 • at rated output voltage for rated value of the output voltage with rapid fluctuation of the neutput voltage p		
Fraited value	· ·	10 ms
• rated range 0 02.5 A supplied active power typical 60 W short-term overload current • on short-circuling during the start-up typical 6 A • at short-circulat during aperation typical 6 A duration of overloading capability for excess current • on short-circulating during the start-up 100 ms • at short-circulating during the start-up 100 ms • at short-circulating during the start-up 100 ms • bridging of equipment 1		
supplied active power typical short-term overfoad current - on short-circuiting during the start-up typical - at short-circuit during operation typical - on short-circuit during operation typical - on short-circuit during operation typical - on short-circuit during operation - on short-circuit during short-circuit during short-circuit protection - on short-circuit during short-circuit during short-circuit protection - on short-circuit	rated value	
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• on short-circuiting during the start-up typical • dat short-circuit during operation typical • on short-circuiting during the start-up • on short-circuiting during the start-up • at short-circuit during operation • at short-circuit during operation • at short-circuit during operation • bridging of equipment • bridging of equipment	···	60 W
• at short-circuit during operation typical duration of overloading capability for excess curent • on short-circuiting during the start-up • at short-circuiting during the start-up • bridging of equipment • bridging of equipment resources for increasing the power start of parallel-switched equipment resources for increasing the power started output voltage for rated value of the output current typical started output voltage for rated value of the output current typical started output voltage for rated value of the output current typical started output voltage by +f -15% typical relative control procision of the output voltage with rapid fluctuation of the input voltage by +f -15% typical relative control procision of the output voltage by +f -15% typical relative control procision of the output voltage by +f -15% typical relative control procision of the output voltage load step of resistive load 50 100/50 % typical setting time	short-term overload current	
duration of overloading capability for excess current	 on short-circuiting during the start-up typical 	6 A
• on short-circuiting during the start-up • at short-circuit during operation 7 on ss * at short-circuit during operation * bridging of equipment • bridging of equipment resources for increasing the power * strictionsy in percent * say short-circuit protection • at rated output, voltage for rated value of the output current hybrid * striction control * creative control precision of the output voltage with rapid fluctuation of the input voltage by * f 15% typical • load step 50 to 100% typical • solid step 60 to 50% typical • solid step 70 to 50% typical • solid step 70 to 50% typical • solid step 70 to 50% typical • solid step 80 to 100% typical • solid step 100 to 50% typical • solid step 100 to 50% typical • solid step 100 to 50% typical • solid step 50 to 100% typical • solid step 50 to 50% typical • solid step 50 to	at short-circuit during operation typical	6 A
• at short-circuit during operation	duration of overloading capability for excess current	
Product feature * bridging of equipment Yes Yes Product feature * bridging of equipment resources for increasing the power *** **Efficiency *** **Efficiency in percent 83 % *** **Efficiency in percent 84 % ** **Efficiency in percent	 on short-circuiting during the start-up 	100 ms
• bridging of equipment number of parallel-switched equipment resources for increasing the power of parallel-switched equipment resources for increasing the power of parallel-switched equipment resources for increasing the power loss [W] • at rated output voltage for rated value of the output current typical current typical to a rated output voltage for rated value of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50 100% typical 5 ms • load step 50 to 100% typical 5 ms • load step 50 to 100% typical 5 ms • maximum 5 ms Protection and monitoring design of the overvoltage protection 33 V • typical 2.55 A property of the output short-circuit proof 4 yes design of short-circuit protection 4 yes design of short-circuit protection 5 constant current characteristic curduring short circuit current RMS value 4 typical 2.7 A display version for overload and short circuit 5 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I leakage current 4 maximum 7 yes galvanic isolation between input and output 9 yes galvanic isolation between input and output 9 yes galvanic isolation between input and output 9 yes galvanic solation between input and output 9 yes galvanic solation between input and output 9 yes protection class IP 1P20 **Potection class IP 1P20 **Pot	at short-circuit during operation	100 ms
number of parallel-switched equipment resources for increasing the power of fifticiency efficiency Proper S3 % S3	product feature	
the power ' fficiency efficiency effi	bridging of equipment	Yes
efficiency in percent power loss [W]		2
power loss [W] a trated output voltage for rated value of the output current typical closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time load step 50 to 100% typical setting time maximum 5 ms rotection and monitoring design of the overvoltage protection loss of the overvoltage protection lossing of short-circuit protection stepful protection constant current characteristic enduring short circuit current RMS value lypical lypical lypical lossing of sort-circuit protection stepful protection overload and short circuit lypical lypical lypical lypical loss of short-circuit protection stepful protection overload and short circuit lypical	Efficiency	
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• at rated output voltage for rated value of the output current typical control precision of the output voltage with rapid fluctuation of the input voltage by 4/- 15% typical relative control precision of the output voltage load step of fresistive load 50/100/50 % typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical 5 ms • load step 100 to 50% typical 5 ms • maximum 5 ms relative control precision of the output voltage load step of resistive load 50/100/50 % typical 5 ms • load step 100 to 50% typical 5 ms • maximum 5 ms retection and monitoring design of the overvoltage protection	· ·	
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e load step 100 to 50% typical 5 ms setting time	setting time	
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• maximum 5 ms Protection and monitoring design of the overvoltage protection ↑ typical design of short-circuit protection • typical •	● load step 100 to 50% typical	5 ms
design of the overvoltage protection • typical • typical 2.65 A property of the output short-circuit proof design of short-circuit protection • typical 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 protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA approval • NEC Class 2 Yes; according to UL1310, File E151273	·	
design of the overvoltage protection	• maximum	5 ms
• 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 • typical 2.7 A display version for overload and short circuit galvanic isolation between input and output Yes galvanic isolation between input and output Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 operating resource protection class enaximum 3.5 mA protection class IP IP20 Approvals CE marking Yes • 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 • NEC Class 2 Yes; according to UL1310, File E151273	Protection and monitoring	
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property of the output short-circuit proof 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	• typical	2.65 A
design of short-circuit protection enduring short circuit current RMS value • typical 2.7 A display version for overload and short circuit - Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • maximum protection class IP provals certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA approval • NEC Class 2 Constant current characteristic 2.7 A 2.7 A	· ·	Yes
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display version for overload and short circuit	-	2.7 A
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galvanic isolation operating resource protection class Class I leakage current		Yes
operating resource protection class leakage current	·	
leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • NEC Class 2 1920 3.5 mA IP20 IP20 IP20 Yes Yes Yes Yes Yes Yes Yes Ye	•	
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protection class IP	-	3.5 m∆
Approvals certificate of suitability		
certificate of suitability • CE marking Yes • 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 • NEC Class 2 Yes; according to UL1310, File E151273	·	II 20
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Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File E151273 • NEC Class 2 Yes; according to UL1310, File E151273	•	Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File E151273
	CSA approval	
FAC approval	NEC Class 2	Yes; according to UL1310, File E151273
- Live approved	EAC approval	Yes

type of certification	
type of certification	
CB-certificate	Yes
certificate of suitability	
• IECEx	Yes; IECEx Ex nA nC IIC T4 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	No
FM registration	Yes; Class I, Div. 2, Group ABCD, T4
certificate of suitability shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	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)

