SIEMENS

Data sheet

6EP1332-1SH71



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

1-phase AC Input Automatic range selection Note supply voltage • 1 at AC rated value 120 V 230 V • 2 at AC rated value input voltage • 1 at AC 85 ... 132 V • 2 at AC 176 ... 264 V Wide-range input No Overvoltage resistance 2.3 × Vin rated, 1.3 ms Mains buffering at Vin = 93/187 V Mains buffering at lout rated, min. 20 ms; at Vin = 93/187 V Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz 47 ... 63 Hz Rated line range input current • at rated input voltage 120 V 1.2 A • at rated input voltage 230 V 0.67 A Switch-on current limiting (+25 °C), max. 13 A duration of inrush current limiting at 25 °C • maximum 3 ms l²t, max. 0.5 A²·s T 3,15 A/250 V (not accessible) Built-in incoming fuse Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C Output Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V 24 V output voltage at output 1 at DC rated value 3 % Total tolerance, static ± Static mains compensation, approx. 0.1 % Static load balancing, approx. 0.2 % Residual ripple peak-peak, max. 150 mV

SIMATIC PM1207/1AC/24VDC/2.5A

Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
product function output voltage adjustable	No
Output voltage setting Status display	 Green LED for 24 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	6 s; 2 s at 230 V, 6 s at 120 V 10 ms
Voltage rise, typ. Rated current value lout rated	2.5 A
	 0 2.5 A
Current range	0 2.5 A 60 W
supplied active power typical	
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	100
on short-circuiting during the start-up	100 ms
at short-circuit during operation	100 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	83 %
Power loss at Vout rated, lout rated, approx.	12 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	3 %
Load step setting time 50 to 100%, typ.	- 5 ms
Load step setting time 100 to 50%, typ.	5 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation, typ.	2.65 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	-
• typical	2.7 A
Overload/short-circuit indicator	
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
leakage current	
maximum	3.5 mA
Degree of protection (EN 60529)	 IP20
- · · · ·	IF 20
Approvals	
CE mark	
UL/cUL (CSA) approval	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
UL/cUL (CSA) approvalExplosion protection	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-
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Explosion protection	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455
Explosion protection certificate of suitability NEC Class 2	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 IECEX EX NA NC IIC T4 Gc; ATEX (EX) II 3G EX NA NC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No
Explosion protection certificate of suitability NEC Class 2 FM approval	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No Class I, Div. 2, Group ABCD, T4
Explosion protection certificate of suitability NEC Class 2 FM approval CB approval	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No Class I, Div. 2, Group ABCD, T4 Yes
Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No Class I, Div. 2, Group ABCD, T4 Yes Yes
Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval EMC	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS, NK
Explosion protection certificate of suitability NEC Class 2 FM approval CB approval certificate of suitability EAC approval Marine approval	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 IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No Class I, Div. 2, Group ABCD, T4 Yes Yes

Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	0 60 °C
— Note	with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
 Supply input 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
Output	L+, M: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	-
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
Weight, approx.	0.3 kg
product feature of the enclosure housing can be lined up	Yes
Installation	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 $^\circ \text{C}$ (unless otherwise specified)

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