## **SIEMENS**

## **Data sheet**



SIPLUS POWER MODUL PM1207

SIPLUS S7-1200 PM 1207 based on 6EP1332-1SH71 with conformal coating, 0...+60 °C, stabilized power supply input: 120/230 V AC output: 24 V DC/2.5 A

Figure similar

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	176 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
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	50/60 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)  Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C	
fuse protection type in the feeder		
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	
output voltage adjustable	No; -	
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	
voltage peak		
maximum	240 mV	
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	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	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
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	
efficiency	
efficiency in percent	83 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	12 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
<ul><li>load step 50 to 100% typical</li></ul>	5 ms
● load step 100 to 50% typical	5 ms
setting time	
• maximum	5 ms
protection and monitoring	
protection and monitoring design of the overvoltage protection	< 33 V
· · · · · · · · · · · · · · · · · · ·	< 33 V Yes
design of the overvoltage protection	
design of the overvoltage protection property of the output short-circuit proof	Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection	Yes Constant current characteristic
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical	Yes Constant current characteristic
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value	Yes Constant current characteristic 2.65 A
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical	Yes Constant current characteristic 2.65 A
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety	Yes Constant current characteristic 2.65 A  2.7 A
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output	Yes Constant current characteristic 2.65 A  2.7 A  Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  • typical  enduring short circuit current RMS value  • typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  protection class IP	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA IP20
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA IP20  EN 55022 Class B
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA IP20  EN 55022 Class B not applicable
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP  EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UKCA marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA IP20  EN 55022 Class B not applicable EN 61000-6-2  Yes Yes 1 492 537 h
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP  EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UKCA marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation	Yes Constant current characteristic 2.65 A  2.7 A  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA IP20  EN 55022 Class B not applicable EN 61000-6-2  Yes Yes 1 492 537 h

ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	
relative humidity with condensation according to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation	
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air	
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust	
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust	
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability	
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection	
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible	
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A	
connection method		
type of electrical connection	screw terminal	
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>	
at output	L+, M: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>	
for auxiliary contacts	-	
mechanical data		
width × height × depth of the enclosure	70 × 100 × 75 mm	
installation width × mounting height	70 mm × 140 mm	
required spacing		
• top	20 mm	
• bottom	20 mm	
• left	0 mm	
● right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting	
DIN-rail mounting	Yes	
S7 rail mounting	No	
wall mounting	Yes	
housing can be lined up	Yes	
net weight	0.3 kg	
further information internet links		
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
• to website: Industry Online Support	https://support.industry.siemens.com	
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	
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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
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval





Manufacturer Declaration China RoHS



<u>KC</u>

EMV

Maritime application





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