## **SIEMENS**

## **Data sheet**



Figure similar

## SIPLUS POWER MODUL PM1207

SIPLUS S7-1200 PM 1207 based on 6EP1332-1SH71 with conformal coating, -25...+70 °C, stabilized power supply input: 120/230 V AC output: 24 V DC/2.5 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	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	
<ul> <li>at rated input voltage 120 V</li> </ul>	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	
<ul><li>at output 1 at DC rated value</li></ul>	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  voltage peak • maximum  voltage peak • maximum  240 mV  product function output voltage adjustable  No  type of output voltage setting	residual riddie	
voltage peak		450 )/
# maximum  product function output voltage adjustable type of output voltage setting display version for normal operation behavior of the output voltage when switching on response delay maximum 6 s; 2 s at 230 V, 6 s at 120 V  voltage increase time of the output voltage • typical output current • rated value • rated value • at add range supplied active power typical short-term overload current • on short-circuiting during the start-up typical • at short-circuiting during the start-up typical duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuiting during the start-up • at short-circuitid during operation product feature • bridging of equipment verifications • bridging of equipment verifications  product feature • bridging of equipment verifications • bridging of equipment verifications  for the power  Circliancy  efficiency in percent power loss IVI • at rated output voltage for rated value of the output current 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 50/10/50 % typical • load step 50 to 100% typical • load step 50 to 100% typical • load step 50 to 100% typical • maximum  protoction and monitoring design of the output short-circuit profetion  resonse value current limitation typical property of the output short-circuit profetion  design of short-circuit protection Constant current characteristic		15U MV
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product feature	at short-circuit during operation	100 ms
number of parallel-switched equipment resources for increasing the power  Efficiency  efficiency in percent		
number of parallel-switched equipment resources for increasing the power  Efficiency  efficiency in percent		Yes
increasing the power  Efficiency  efficiency in percent  power loss [W]  • at rated 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  setting time  • load step 50 to 100% typical  • load step 100 to 50% typical  setting time  • maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  Constant current characteristic		2
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<ul> <li>load step 50 to 100% typical</li> <li>load step 100 to 50% typical</li> <li>setting time         <ul> <li>maximum</li> <li>maximum</li> </ul> </li> <li>Protection and monitoring         <ul> <li>design of the overvoltage protection</li> <li>response value current limitation typical</li> <li>property of the output short-circuit proof</li> <li>Yes</li> <li>design of short-circuit protection</li> <li>Constant current characteristic</li> </ul> </li> </ul>		3 %
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property of the output short-circuit proof  design of short-circuit protection  Yes  Constant current characteristic		
design of short-circuit protection Constant current characteristic		
CONTRACT OFFICE OFFICE AND VOLUME		Constant current characteristic
	enduring short circuit current RMS value	0.7.4
• typical 2.7 A		
display version for overload and short circuit -		-
Safety	Safety	
galvanic isolation between input and output  Yes	galvanic isolation between input and output	Yes
	_ ~	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class Class I	operating resource protection class	Class I
leakage current	leakage current	
• maximum 3.5 mA	maximum	3.5 mA
protection class IP IP20	protection class IP	IP20
Approvals	Approvals	
certificate of suitability		
CE marking     Yes	· ·	Yes
EMC		
standard		
Standard	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	
in horizontal mounting position during operation	-25 +70 °C; with natural convection
during storage and transport	-40 +85 °C
installation altitude at height above sea level maximum	6 000 m
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
Mechanics	
type of electrical connection	screw-type terminals
• 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	-
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)

