



Figure similar

### 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

Input	
type of the power supply network	1-phase AC
supply voltage at AC	Automatic range selection
<ul style="list-style-type: none"> <li>initial value</li> </ul>	
supply voltage	
<ul style="list-style-type: none"> <li>1 at AC rated value</li> <li>2 at AC rated value</li> </ul>	120 V 230 V
input voltage	
<ul style="list-style-type: none"> <li>1 at AC</li> <li>2 at AC</li> </ul>	85 ... 132 V 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	
<ul style="list-style-type: none"> <li>1 rated value</li> <li>2 rated value</li> </ul>	50 Hz 60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> <li>at rated input voltage 120 V</li> <li>at rated input voltage 230 V</li> </ul>	1.2 A 0.67 A
current limitation of inrush current at 25 °C maximum	13 A
duration of inrush current limiting at 25 °C	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	3 ms
I2t value maximum	0.5 A²·s
fuse protection type	T 3,15 A/250 V (not accessible)
<ul style="list-style-type: none"> <li>in the feeder</li> </ul>	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 style="list-style-type: none"> <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	
<ul style="list-style-type: none"> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 % 0.2 %
residual ripple	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	150 mV

voltage peak	240 mV
• maximum	No
product function output voltage adjustable	-
type of output voltage setting	Green LED for 24 V OK
display version for normal operation	No overshoot of Vout (soft start)
behavior of the output voltage when switching on	6 s; 2 s at 230 V, 6 s at 120 V
response delay maximum	
voltage increase time of the output voltage	10 ms
• typical	
output current	2.5 A
• rated value	0 ... 2.5 A
• rated range	60 W
supplied active power typical	
short-term overload current	6 A
• on short-circuiting during the start-up typical	6 A
• at short-circuit during operation typical	
duration of overloading capability for excess current	100 ms
• on short-circuiting during the start-up	100 ms
• at short-circuit during operation	
product feature	Yes
• bridging of equipment	2
number of parallel-switched equipment resources for increasing the power	

#### Efficiency

efficiency in percent	83 %
power loss [W]	12 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	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
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
• typical	2.65 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
ending short circuit current RMS value	
• typical	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	
• CE marking	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	
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- in horizontal mounting position during operation
- during storage and transport

installation altitude at height above sea level maximum  
ambient condition relating to ambient temperature - air pressure - installation altitude

relative humidity with condensation according to IEC 60068-2-38 maximum

chemical resistance to commercially available cooling lubricants

resistance to biologically active substances conformity according to EN 60721-3-3

resistance to chemically active substances conformity according to EN 60721-3-3

resistance to mechanically active substances conformity according to EN 60721-3-3

resistance to biologically active substances conformity according to EN 60721-3-6

resistance to chemically active substances conformity according to EN 60721-3-6

resistance to mechanically active substances conformity according to EN 60721-3-6

coating for equipped printed circuit board according to EN 61086

type of coating protection against pollution according to EN 60664-3

type of test of the coating according to MIL-I-46058C

product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

0 ... 60 °C; with natural convection  
-40 ... +85 °C  
6 000 m

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  
100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation  
Yes; incl. diesel and oil droplets in the air

Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request  
Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)  
Yes; Class 3S4 incl. sand, dust

Yes; Class 6B2 mold, fungal, sponge spores (except fauna)

Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)  
Yes; Class 6S3 incl. sand, dust

Yes; Class 2 for high availability

Yes; Type 1 protection

Yes; Discoloration of the coating during service life possible  
Yes; Conformal Coating, Class A

## Mechanics

<p>type of electrical connection</p> <ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for auxiliary contacts</li> </ul> <p>width of the enclosure</p> <p>height of the enclosure</p> <p>depth of the enclosure</p> <p>required spacing</p> <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul> <p>net weight</p> <p>product feature of the enclosure housing can be lined up</p> <p>fastening method</p> <p>MTBF at 40 °C</p> <p>other information</p>	<p>screw-type terminals</p> <p>L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm<sup>2</sup> L+, M: 2 screw terminals each for 0.5 ... 2.5 mm<sup>2</sup> -</p> <p>70 mm</p> <p>100 mm</p> <p>75 mm</p> <p>20 mm</p> <p>20 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0.3 kg</p> <p>Yes</p> <p>Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting</p> <p>1 492 537 h</p> <p>Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)</p>
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