## **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	
Input	1-phase AC
• Note	Automatic range selection
supply voltage	
<ul><li>1 at AC rated value</li></ul>	120 V
<ul><li>2 at AC rated value</li></ul>	230 V
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
Rated line range	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	1.2 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.67 A
Switch-on current limiting (+25 °C), max.	13 A
duration of inrush current limiting at 25 °C	
• maximum	3 ms
I²t, max.	0.5 A <sup>2</sup> ·s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
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
<ul> <li>output voltage at output 1 at DC rated value</li> </ul>	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	150 mV
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
Voltage rise, typ.	10 ms
Rated current value lout rated	2.5 A
Current 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
<ul> <li>at short-circuit during operation typical</li> </ul>	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
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
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Efficiency	00.04
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
Approvals	
CE mark	Yes
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
Explosion protection	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
certificate of suitability NEC Class 2	No
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	ABS, BV, DNV GL, LRS, NK
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 60 °C
- dailing operation	· · · ·

— 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		
<ul> <li>Supply input</li> </ul>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>	
Output	L+, M: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>	
<ul> <li>Auxiliary</li> </ul>	-	
width of the enclosure	70 mm	
height of the enclosure	100 mm	
depth of the enclosure	75 mm	
required spacing		
• top	20 mm	
<ul><li>bottom</li></ul>	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 °C (unless otherwise specified)	

