SIEMENS

Data sheet 6EP1332-4BA00



SIMATIC PM1507/1AC/24VDC/3A

SIMATIC PM 1507 24 V/3 A Stabilized power supply for SIMATIC S7-1500 input: 120/230 V AC, output: 24 V DC/3 A

Input	
Input	1-phase AC
Note	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 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	45 65 Hz
input current	
 at rated input voltage 120 V 	1.4 A
 at rated input voltage 230 V 	0.8 A
Switch-on current limiting (+25 °C), max.	23 A
duration of inrush current limiting at 25 °C	
• maximum	3 ms
I²t, max.	1.3 A ² ·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: 10 A characteristic B or 6 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
output voltage at output 1 at DC rated value	24 V
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
product function output voltage adjustable	No
Status display	LED green for 24 V OK; LED red for error; LED yellow for stand-by
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 s

Voltage rice tup	10 mg
Voltage rise, typ.	10 ms
Rated current value lout rated	3 A
Current range	0 3 A
supplied active power typical	72 W
short-term overload current	
on short-circuiting during the start-up typical	12 A
at short-circuit during operation typical	12 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	70 ms
at short-circuit during operation	70 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	07.0/
Efficiency at Vout rated, lout rated, approx.	_ 87 %
Power loss at Vout rated, lout rated, approx.	11 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	5 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
Current limitation	3.15 3.6 A
Current limitation, typ.	3.4 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	-
Onfoto	
Safety	
Primary/secondary isolation	Yes
	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Primary/secondary isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Primary/secondary isolation galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Primary/secondary isolation galvanic isolation Protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529)	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20
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Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 IECEX EX NA NC IIC T4 Gc; ATEX (EX) II 3G EX NA NC IIC T4 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455 No
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Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 IECEX EX nA nC IIC T4 Gc; ATEX (EX) II 3G EX nA nC IIC T4 Gc; cULus (ANSI/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 EN 55022 Class B EN 61000-3-2
Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 IECEX EX nA nC IIC T4 Gc; ATEX (EX) II 3G EX nA nC IIC T4 Gc; cULus (ANSI/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 EN 55022 Class B EN 61000-3-2
Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 IECEX EX NA nC IIC T4 Gc; ATEX (EX) II 3G EX NA nC IIC T4 Gc; cULus (ANSI/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 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
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Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 IECEX EX nA nC IIC T4 Gc; ATEX (EX) II 3G EX nA nC IIC T4 Gc; cULus (ANSI/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 EN 55022 Class B EN 61000-3-2 EN 61000-6-2

Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation	
Mechanics		
Connection technology	Screw-/spring clamp connection	
Connections		
 Supply input 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²	
Output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²	
product function		
 removable terminal at input 	Yes	
removable terminal at output	Yes	
width of the enclosure	50 mm	
height of the enclosure	147 mm	
depth of the enclosure	129 mm	
required spacing		
• top	40 mm	
• bottom	40 mm	
• left	0 mm	
• right	0 mm	
Weight, approx.	0.45 kg	
product feature of the enclosure housing can be lined up	Yes	
Installation	Can be mounted onto S7-1500 rail	
MTBF at 40 °C	1 611 993 h	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	

