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	
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	170 264 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	45 65 Hz
input current	
 at rated input voltage 120 V 	1.4 A
 at rated input voltage 230 V 	0.8 A
current limitation of inrush current at 25 °C maximum	23 A
duration of inrush current limiting at 25 °C	
• maximum	3 ms
l2t value maximum	1.3 A ^{2.} s
fuse protection type	T 3,15 A/250 V (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C
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	1 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	50 mV
voltage peak	
• maximum	150 mV
display version for normal operation	LED green for 24 V OK; LED red for error; LED yellow for stand-by
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 s

voltage increase time of the output voltage	
• typical	10 ms
output current	
rated value	3 A
rated 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
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	87 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	11 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
 load step 10 to 90% typical 	5 ms
 load step 90 to 10% typical 	5 ms
• maximum	5 ms
protection and monitoring	
design of the overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	3.15 3.6 A
• typical	3.4 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	
-	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
operating resource protection class	
	61131-2
operating resource protection class	61131-2
operating resource protection class leakage current	61131-2 Class I
operating resource protection class leakage current • maximum	61131-2 Class I 3.5 mA
operating resource protection class leakage current • maximum • typical	61131-2 Class I 3.5 mA 0.4 mA
operating resource protection class leakage current • maximum • typical protection class IP	61131-2 Class I 3.5 mA 0.4 mA
operating resource protection class leakage current • maximum • typical protection class IP EMC	61131-2 Class I 3.5 mA 0.4 mA
operating resource protection class leakage current • maximum • typical protection class IP EMC standard	61131-2 Class I 3.5 mA 0.4 mA IP20
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2
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operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
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operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • EAC approval	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM)	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2	61131-2 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes

CB-certificate	Yes
MTBF at 40 °C	1 611 993 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes; IECEx Ex nA nC IIC T4 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
ULhazloc approval	Yes; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group
	ABCD, T4, File E330455
 cCSAus, Class 1, Division 2 	No
• UKEX	Yes
 CCC for hazardous zone according to GB standard 	Yes
FM registration	Yes; Class I, Div. 2, Group ABCD, T4
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
 Det Norske Veritas (DNV) 	Yes
Lloyds Register of Shipping (LRS)	No
ambient conditions	
ambient temperature	
during operation	0 60 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	Screw-/spring clamp connection
at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
• at output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	50 × 147 × 129 mm
installation width × mounting height	50 mm × 205 mm
required spacing	50 mm ~ 205 mm
• top	40 mm
• bottom	40 mm
• left	0 mm
	0 mm
right fastaning method	
fastening method	Can be mounted onto S7-1500 rail
standard rail mounting	No
S7 rail mounting	Yes No
wall mounting	
housing can be lined up	Yes
net weight	0.45 kg
further information internet links	
internet link	
• to website: Industry Mall	https://mail.industry.siemens.com
• to website: Industrial communication	https://siemens.com/industrial-communication
• to website: CAx-Download-Manager	https://siemens.com/cax
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	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected

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Cla	SSIT	icati	ions	5	

				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	9	EC002540
			ETIM	8	EC002540
			ETIM	7	EC002540
			IDEA	4	4130
			UNSPSC	15	39-12-10-04
Approvals Certificates					
General Product Appr	oval				
		Manufacturer Declara-		~	Miscellaneous
СВ	СВ	tion	UK	(ŲL)	
CB	CB		UK CA		
General Product Approval	For use in hazardo	us locations			
BIS CRS		AN TRA			<u>FM</u>
	IECE×		<8x>	IECE×	
	IECEx	131	ATEX	IECEx	
		VERITAS			
For use in hazardous	locations	Marine / Shipping			
CCC-Ex		A Starten	8		
	(ŸL)	〔読〕	44		
	UL	BUREAU	DNV		
		VERITAS			
last modified:		8/30/2	2024 🖸		