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	
initial value	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
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	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
12t value maximum	1.3 A ² ·s
fuse protection type	T 3,15 A/250 V (not accessible)
• 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
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

voltage peak

50 mV

	170
• maximum	150 mV
product function output voltage adjustable	No
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
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	87 %
power loss [W]	
 at rated output voltage for rated value of the output 	11 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	
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
response value current limitation	3.15 3.6 A
response value current limitation typical	3.4 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	-
Safety	
galvanic isolation between input and output	Yes
	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
galvanic isolation	and EN 61131-2
operating resource protection class	Class I
leakage current	
maximum	3.5 mA
• typical	0.4 mA
protection class IP	IP20
Approvals	
certificate of suitability	V
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
 CSA approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
cCSAus, Class 1, Division 2	No
• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
certificate of suitability	
 relating to ATEX 	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

IECEx Yes; IECEx Ex nA nC IIC T4 Gc • NEC Class 2 No ULhazloc approval Yes • FM registration Yes; Class I, Div. 2, Group ABCD, T4 type of certification CB-certificate certificate of suitability • EAC approval Yes certificate of suitability shipbuilding approval Yes shipbuilding approval ABS, BV, DNV GL Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) Yes Yes • French marine classification society (BV) • DNV GL Yes • Lloyds Register of Shipping (LRS) No • Nippon Kaiji Kyokai (NK) No **EMC** standard EN 55022 Class B • for emitted interference • for mains harmonics limitation EN 61000-3-2 • for interference immunity EN 61000-6-2 environmental 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 Mechanics type of electrical connection Screw-/spring clamp connection at input L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² at output L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² product function Yes • removable terminal at input · 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 40 mm top bottom 40 mm left 0 mm right 0 mm net weight 0.45 kg product feature of the enclosure housing can be lined up Yes fastening method Can be mounted onto S7-1500 rail MTBF at 40 °C 1611993h other information Specifications at rated input voltage and ambient temperature +25 °C



(unless otherwise specified)