## **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

nput	
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
I2t value maximum	1.3 A <sup>2</sup> ·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
Dutput	
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	
rr :	

voltage peak

• maximum

50 mV

	450 1/
• 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	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	12 A
<ul> <li>at short-circuit during operation typical</li> </ul>	12 A
duration of overloading capability for excess current	
<ul> <li>on short-circuiting during the start-up</li> </ul>	70 ms
<ul> <li>at short-circuit during operation</li> </ul>	70 ms
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	87 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	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	
<ul> <li>load step 10 to 90% typical</li> </ul>	5 ms
<ul><li>load step 90 to 10% typical</li></ul>	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
• 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	Von
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
CSA approval      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	IEOE, E. A. O. IIO TA O. ATEV (EV) II OO E. A. O. IIO TA O.
<ul> <li>relating to ATEX</li> </ul>	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	Yes
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
French marine classification society (BV)	Yes
• DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard  • for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul><li>during operation</li></ul>	0 60 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul><li>during storage</li></ul>	-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 mm <sup>2</sup>
<ul><li>at output</li></ul>	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm <sup>2</sup>
product function	
<ul> <li>removable terminal at input</li> </ul>	Yes
<ul> <li>removable terminal at output</li> </ul>	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
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	1 611 993 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
other information	opositionis at rated input voltage and ambient temperature 120 0

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