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

type of the power supply network 1-phase AC supply voltage at AC Automatic range selection supply voltage 1 at AC 85 132 V input voltage 2 at AC 70 264 V wide range input No overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffering lime for rated value of the output current in the event of power failure minimum 20 ms operating condition of the mains buffering at Vin = 33/187 V line frequency 50/60 Hz line frequency 45 65 Hz input current 4 at rated input voltage 120 V 4.8 A • at rated input voltage 230 V 3.8 A current limitation of inrush current at 25 °C maximum 3 ms 12t value maximum 1.3 A*3 fuse protection type in the feeder Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable No e relative correl precision of the output voltage 1 % e naximum 50 mV voltage peak	input		
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power failure minimum operating condition of the mains buffering line frequency line frequency line frequency line frequency 150/60 Hz line freque	overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
line frequency line f		20 ms	
line frequency 45 65 Hz input current at rated input voltage 120 V at rated input voltage 230 V 0.8 A current limitation of inrush current at 25 °C maximum 3	operating condition of the mains buffering	at Vin = 93/187 V	
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fuse protection type in the feeder Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C Sutput Voltage curve at output Controlled, isolated DC voltage Output voltage at DC rated value 24 V Output voltage adjustable No relative overall tolerance of the voltage On slow fluctuation of input voltage On slow fluctuation of ohm loading On slow fluctuation of ohm loading On swimmum Sommum So	maximum	3 ms	
Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C voltage curve at output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation behavior of the output voltage when switching on Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C Controlled, isolated DC voltage 24 V 24 V 01 W 01 W 02 W 04 W 05 mV 05 mV 150 mV 150 mV 150 mV No overshoot of Vout (soft start)	I2t value maximum	1.3 A²-s	
characteristic C voltage curve at output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation behavior of the output voltage when switching on Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V 0.1 W 0.1 W 0.1 W 0.1 W 150 mV Voltage peak • maximum 150 mV No overshoot of Vout (soft start)	fuse protection type	T 3,15 A/250 V (not accessible)	
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output voltage	voltage curve at output	Controlled, isolated DC voltage	
 at output 1 at DC rated value output voltage adjustable relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading on slow fluctuation of ohm loading maximum maximum on wv voltage peak maximum maximum to mv display version for normal operation behavior of the output voltage when switching on volvershoot of Vout (soft start) 	output voltage at DC rated value	24 V	
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relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 50 mV voltage peak maximum 150 mV display version for normal operation behavior of the output voltage when switching on 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1	at output 1 at DC rated value	24 V	
relative control precision of the output voltage	output voltage adjustable	No	
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.1 % residual ripple maximum on mv voltage peak maximum for mv display version for normal operation behavior of the output voltage when switching on no overshoot of Vout (soft start) no overshoot of vout (soft start) 	relative overall tolerance of the voltage	1 %	
on slow fluctuation of ohm loading residual ripple maximum 50 mV voltage peak maximum 150 mV display version for normal operation behavior of the output voltage when switching on 0.1 % 50 mV LED green for 24 V OK; LED red for error; LED yellow for stand-by No overshoot of Vout (soft start)	relative control precision of the output voltage		
residual ripple	on slow fluctuation of input voltage	0.1 %	
● 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)	on slow fluctuation of ohm loading	0.1 %	
voltage peak	residual ripple		
● 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)	maximum	50 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)	voltage peak		
behavior of the output voltage when switching on No overshoot of Vout (soft start)	• maximum	150 mV	
	display version for normal operation	LED green for 24 V OK; LED red for error; LED yellow for stand-by	
response delay maximum 1.5 s	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	
	12 A	
at short-circuit during operation typical duration of overloading capability for excess current	12 M	
on short-circuiting during the start-up	70 ma	
	70 ms	
at short-circuit during operation A side in a side a	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]	01 /0	
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	2.0/	
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	0.7.0	
	Yes	
galvanic isolation between input and output		
galvanic isolation	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2	
operating resource protection class	Class I	
leakage current		
maximum	3.5 mA	
• typical	0.4 mA	
protection class IP	IP20	
EMC		
standard		
• for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity standards specifications approvals	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability	Voc	
• 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	
UKCA marking	Yes	
EAC approval	Yes	
 Regulatory Compliance Mark (RCM) 	Yes	
NEC Class 2	No	
type of certification		
type of certification • BIS	Yes; R-41183539	

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	
GENEZIOO APPIOVAI	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		
mechanical data width × height × depth of the enclosure	50 × 147 × 129 mm	
width × height × depth of the enclosure	50 × 147 × 129 mm 50 mm × 205 mm	
width × height × depth of the enclosure installation width × mounting height		
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm	
width × height × depth of the enclosure installation width × mounting height required spacing • top	50 mm × 205 mm 40 mm	
width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom	50 mm × 205 mm 40 mm 40 mm	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes	
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width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm Can be mounted onto S7-1500 rail No Yes No	
width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight further information internet links	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg	
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width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax	
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width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 205 mm 40 mm 40 mm 0 mm 0 mm Can be mounted onto S7-1500 rail No Yes No Yes 0.45 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless	

to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

	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

General Product Approval



Manufacturer Declaration





Miscellaneous

General Product Approval

For use in hazardous locations

BIS CRS



IECEx





<u>FM</u>

CCC-Ex

For use in hazardous locations

Marine / Shipping









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