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	
I2t value maximum	1.3 A²-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	1 //	
on slow fluctuation of input voltage	0.1 %	
on slow fluctuation of hipput voltage on slow fluctuation of ohm loading	0.1 %	
residual ripple	0.1 /0	
maximum	50 mV	
voltage peak	OO IIIV	
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 duration of overloading capability for excess current	12 A	
on short-circuiting during the start-up	70 ma	
	70 ms	
at short-circuit during operation A stable to a formular and the sta	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			
	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) Canala	Yes			
Det Norske Veritas (DNV)	Yes			
Lloyds Register of Shipping (LRS)	No			
ambient conditions				
ambient temperature	O CO with potural convention			
during operation during transport	0 60; with natural convection			
during transport	-40 +85			
during storage approximatal category according to IEC 60721	-40 +85			
environmental category according to IEC 60721 connection method	Climate class 3K3, 5 95% no condensation			
	Scraw-/spring clamp connection			
type of electrical connection • at input	Screw-/spring clamp connection L, N, PE: 1 screw terminal each for 0.5 2.5 mm²			
at input 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 input	Yes			
mechanical data				
width × height × depth of the enclosure	50 × 147 × 129 mm			
installation width × mounting height	50 mm × 205 mm			
required spacing	200			
• top	40 mm			
• bottom	40 mm			
• left	0 mm			
• right	0 mm			
fastening method	Can be mounted onto S7-1500 rail			
standard rail mounting	No			
S7 rail mounting	Yes			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.45 kg			
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com			
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud			
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	onici wide apecilieu)			
	Signate provides products and solutions with industrial subsequently functions			
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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	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 Approval

CB

Manufacturer Declara-<u>tion</u>





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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