SIEMENS

Data sheet 6EP1333-4BA00



SIMATIC PM1507/1AC/24VDC/8A

SIMATIC PM 1507 24 V/8 A Regulated power supply for SIMATIC S7-1500 input: 120/230 V AC, output: 24 V DC/8 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 	3.7 A	
at rated input voltage 230 V	1.7 A	
current limitation of inrush current at 25 °C maximum	62 A	
duration of inrush current limiting at 25 °C		
maximum	3 ms	
I2t value maximum	12 A ² ·s	
fuse protection type	T 6.3 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 10 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)	

voltage increase time of the output voltage			
• typical	10 ms		
output current			
rated value	8 A		
rated range	0 8 A		
supplied active power typical	192 W		
short-term overload current			
 on short-circuiting during the start-up typical 	35 A		
at short-circuit during operation typical	35 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	90 %		
power loss [W]			
at rated output voltage for rated value of the output current typical	21 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	2 %		
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	8.4 9.6 A		
• typical	9 A		
• typical			
• typical safety			
	Yes		
safety	Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2		
safety galvanic isolation between input and output	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN		
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		
galvanic isolation between input and output galvanic isolation operating resource protection class	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2		
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I		
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA		
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA		
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA		
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA IP20		
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA IP20 EN 55022 Class B		
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA IP20 EN 55022 Class B EN 61000-3-2		
safety galvanic isolation between input and output galvanic isolation 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	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 mA IP20 EN 55022 Class B EN 61000-3-2		
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safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 1.3 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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ATEX ULhazloc approval CCSAus, Class 1, Division 2 UKEX CCC for hazardous zone according to GB standard FM registration ATEX Yes; AT Yes; CU ABCD, T No Yes Yes Yes Standard Yes Yes; Class tandard Yes; Class tandards, specifications, approvals marine classification	18 h CEx Ex nA nC IIC T3 Gc EX (EX) II 3G Ex nA nC IIC T3 Gc Lus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group T3, File E330455 ass I, Div. 2, Group ABCD, T4
standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • UKEX • CCC for hazardous zone according to GB standard • FM registration standards, specifications, approvals marine classification	EX (EX) II 3G Ex nA nC IIC T3 Gc Lus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group T3, File E330455
certificate of suitability • IECEX • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • UKEX • CCC for hazardous zone according to GB standard • FM registration certificate of suitability Yes; IEC Yes; CU ABCD, T No Yes Yes Yes **Yes **Yes **Yes **Yes Yes	EX (EX) II 3G Ex nA nC IIC T3 Gc Lus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group T3, File E330455
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standards, specifications, approvals marine classification	ass I, Div. 2, Group ABCD, T4
chinhuilding approval	
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)	
ambient conditions	
ambient temperature	
	with natural convection
• during transport -40 +8	
• during storage -40 +8	
	class 3K3, 5 95% no condensation
connection method	
	spring clamp connection
	E: 1 screw terminal each for 0.5 2.5 mm ²
·	2 spring-loaded terminals each for 0.5 to 2.5 mm ²
removable terminal at input Yes	Spring loaded terminate each for electic 2.5 min
removable terminal at output Yes	
mechanical data	
	7 × 129 mm
3	× 205 mm
required spacing	200 11111
• top 40 mm	
• bottom 40 mm	
• left 0 mm	
• right 0 mm	
	mounted onto S7-1500 rail
standard rail mounting No	
Standard rail mounting S7 rail mounting Yes	
wall mounting No	
housing can be lined up Yes	
net weight 0.74 kg	
further information internet links	
internet link	nall industry sigmons com
	nall.industry.siemens.com
. •	www.siemens.com/tstcloud
ŭ .	iemens.com/cax
	upport.industry.siemens.com
additional information	
	ations at rated input voltage and ambient temperature +25 °C (unless se specified)
security information	
	s provides products and solutions with industrial cybersecurity functions
that sup In order threats, state-of- solutions for preve	s provides products and solutions with industrial cybersecurity functions port the secure operation of plants, systems, machines and networks. It to protect plants, systems, machines and networks against cyber it is necessary to implement – and continuously maintain – a holistic, the-art industrial cybersecurity concept. Siemens' products and so constitute one element of such a concept. Customers are responsible enting unauthorized access to their plants, systems, machines and so. 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



Manufacturer Declara-<u>tion</u>





Miscellaneous

General Product Approval

For use in hazardous locations

BIS CRS





<u>FM</u>

CCC-Ex



Marine / Shipping





last modified:

11/19/2024