SIEMENS

Data sheet



SIPLUS S7-1500 PM 1507 24V/8A

SIPLUS S7-1500 PM 1507 24V/8A based on 6EP1333-4BA00 with conformal coating, -40...+70 °C, stabilized power supply for SIMATIC S7-1500 input: 120/230 V AC output: 24 V DC/8 A

Figure similar

put		
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 A²-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	
utput		
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)	

response delay maximum	1.5 s
voltage increase time of the output voltage	40
• 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	0.1 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical relative control precision of the output voltage at load step of	3 %
resistive load 10/90/10 % typical setting time	ο <i>γ</i>
load step 10 to 90% typical	5 ms
load step 90 to 10% typical load step 90 to 10% typical	5 ms
maximum	5 ms
protection and monitoring	3 1118
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
safety	*^
	Ver
galvanic isolation between input and output	Yes
galvanic isolation	
	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
operating resource protection class	
operating resource protection class leakage current	61131-2 Class I
operating resource protection class leakage current • maximum	61131-2 Class I 3.5 mA
operating resource protection class leakage current • maximum • typical	61131-2 Class I 3.5 mA 1.3 mA
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operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference	61131-2 Class I 3.5 mA 1.3 mA IP20 EN 55022 Class B
operating resource protection class leakage current	61131-2 Class I 3.5 mA 1.3 mA IP20
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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 certificate of suitability • CE marking	61131-2 Class I 3.5 mA 1.3 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes
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installation altitude at height above sea level maximum	6 000 m	
ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	
relative humidity with condensation according to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation	
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air	
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust	
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust	
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability	
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection	
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible	
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A	
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	
nechanical data	165	
	75 × 147 × 129 mm	
width × height × depth of the enclosure	75 mm × 205 mm	
installation width × mounting height	73 11111 ^ 203 11111	
required spacing	40 mm	
• top		
• bottom	40 mm	
• left	0 mm	
• right	0 mm	
fastening method	Can be mounted onto S7-1500 rail	
DIN-rail mounting	No	
S7 rail mounting	Yes	
wall mounting	No	
housing can be lined up	Yes	
net weight	0.74 kg	
urther information internet links		
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)	
security information		
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 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	

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Classifications

	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

EMV

Miscellaneous

Manufacturer Declara-<u>tion</u>







<u>KC</u>

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Marine / Shipping





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