## **SIEMENS**

## **Data sheet**

## 6AG1333-4BA00-7AA0



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

riguresiiina	
Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
<ul><li>1 at AC rated value</li></ul>	120 V
<ul><li>2 at AC rated value</li></ul>	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	
<ul> <li>at rated input voltage 120 V</li> </ul>	3.7 A
<ul> <li>at rated input voltage 230 V</li> </ul>	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 <sup>2</sup> ·s
fuse protection type	T 6.3 A/250 V (not accessible)
• 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	

residual ripple

• maximum

• at output 1 at DC rated value

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

24 V

1 %

0.1 %

0.1 %

50 mV

voltage peak	
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	
<ul><li>typical</li></ul>	10 ms
output current	
rated value	8 A
rated range	0 8 A
supplied active power typical	192 W
short-term overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	35 A
<ul> <li>at short-circuit during operation typical</li> </ul>	35 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	00.0/
efficiency in percent	90 %
power loss [W]	04.114
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	21 W
Closed-loop control	
	0.1 %
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	2 %
resistive load 50/100/50 % typical	3 %
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
response value current limitation	8.4 9.6 A
typical	9 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
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
g so .oo.a.o	and EN 61131-2
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	1.3 mA
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
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

- in horizontal mounting position during operation
- · during storage and transport

installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude

relative humidity with condensation according to IEC 60068-2-38 maximum

chemical resistance to commercially available cooling lubricants

resistance to biologically active substances conformity according to EN 60721-3-3

resistance to chemically active substances conformity according to EN 60721-3-3

resistance to mechanically active substances conformity according to EN 60721-3-3

resistance to biologically active substances conformity according to EN 60721-3-6

resistance to chemically active substances conformity according to EN 60721-3-6

resistance to mechanically active substances conformity according to EN 60721-3-6

coating for equipped printed circuit board according to EN 61086

type of coating protection against pollution according to FN 60664-3

type of test of the coating according to MIL-I-46058C product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

-40 ... +70 °C; with natural convection

-40 ... +85 °C

6 000 m

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

100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation

Yes; incl. diesel and oil droplets in the air

Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request

Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)

Yes; Class 3S4 incl. sand, dust

Yes; Class 6B2 mold, fungal, sponge spores (except fauna)

Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)

Yes; Class 6S3 incl. sand, dust

Yes; Class 2 for high availability

Yes; Type 1 protection

Yes; Discoloration of the coating during service life possible

Yes; Conformal Coating, Class A

## **Mechanics**

type of electrical connection

- at input
- at output

product function

- removable terminal at input
- removable terminal at output

width of the enclosure

height of the enclosure

depth of the enclosure

required spacing

- top
- bottom
- left
- right

net weight

product feature of the enclosure housing can be lined up

fastening method

MTBF at 40 °C

other information

Screw-/spring clamp connection

L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm<sup>2</sup>

L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm²

Yes

Yes

75 mm

147 mm

129 mm

40 mm

40 mm

0 mm

0 mm

0.74 kg

Yes

Can be mounted onto S7-1500 rail

1 362 918 h

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

