SIEMENS

Data sheet

6AG1333-4BA00-7AA0



SIPLUS S7-1500 PM 1507 24V/8A

SIPLUS S7-1500 PM 1507 24 V/8 A -40 ... +70°C with conformal coating based on 6EP1333-4BA00 . STABILIZED POWER SUPPLY FOR SIMATIC S7-1500 INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC

Figure similar

Input	
Input	1-phase AC
Note	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
 2 at AC rated value 	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering	at Vin = 93/187 V
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	45 65 Hz
input current	
 at rated input voltage 120 V 	3.7 A
 at rated input voltage 230 V 	1.7 A
Switch-on current limiting (+25 °C), max.	62 A
duration of inrush current limiting at 25 °C	
maximum	3 ms
l²t, max.	12 A ^{2.} s
Built-in incoming fuse	T 6.3 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
 output voltage at output 1 at DC rated value 	24 V
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
product function output voltage adjustable	No
Status display	LED green for 24 V OK; LED red for error; LED yellow for stand-by
On/off behavior	No overshoot of Vout (soft start)

Startup delay, max.	1.5 s
Voltage rise, typ.	10 ms
Rated current value lout rated	8 A
Current range	08A
supplied active power typical	192 W
short-term overload current	132 W
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	
0 1 3	70 ms
 on short-circuiting during the start-up at short-circuit during operation 	70 ms
	Yes
Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced	2
performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	21 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	2%
Dynamic load smoothing (lout: $10/90/10$ %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	5 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
Current limitation	8.4 9.6 A
Current limitation, typ.	9 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	
Safety	
	Yes
Primary/secondary isolation	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Protection class	Class I
leakage current	
• maximum	3.5 mA
● typical	1.3 mA
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature in horizontal mounting position during operation	-40 +70; with natural convection
ambient temperature during storage and transport	-40 +85
installation altitude at height above sea level maximum	6 000 m
ambient condition relating to ambient temperature - air	In case of operation at altitudes of 2000 - 6000 m above sea level:
pressure - installation altitude	Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
relative humidity with condensation acc. 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 acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
resistance to chemically active substances conformity acc.	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52

to EN 60721-3-3	(severity level 3)
resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
resistance to biologically active substances conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
resistance to chemically active substances conformity acc. 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 acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
coating for equipped printed circuit board acc. 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 acc. 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 acc. to IPC-CC-830A	Yes; Conformal Coating, Class A
Mechanics	
Connection technology	Screw-/spring clamp connection
Connections	
 Supply input 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
Output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²
product function	
 removable terminal at input 	Yes
 removable terminal at output 	Yes
width of the enclosure	75 mm
height of the enclosure	147 mm
depth of the enclosure	129 mm
required spacing	
• top	40 mm
• bottom	40 mm
● left	0 mm
● right	0 mm
Weight, approx.	0.74 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Can be mounted onto S7-1500 rail
MTBF at 40 °C	1 362 918 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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