SIEMENS

Data sheet

6AG1332-4BA00-7AA0



Figure similar

SIPLUS S7-1500 PM 1507 24 V/3 A -40 ... +70°C with conformal coating based on 6EP1332-4BA00 . STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/3 A DC

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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 	1.4 A	
 at rated input voltage 230 V 	0.8 A	
Switch-on current limiting (+25 °C), max.	23 A	
duration of inrush current limiting at 25 °C		
• maximum	3 ms	
l²t, max.	1.3 A ² ·s	
Built-in incoming fuse	T 3,15 A/250 V (not accessible)	
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 10 A characteristic B or 6 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 %	

SIPLUS S7-1500 PM 1507 24V/3A

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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	3 A		
Current 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 	12 A		
duration of overloading capability for excess current			
 on short-circuiting during the start-up 	70 ms		
 at short-circuit during operation 	70 ms		
Parallel switching for enhanced performance	Yes		
Numbers of parallel switchable units for enhanced	2		
performance			
Efficiency			
Efficiency at Vout rated, lout rated, approx.	87 %		
Power loss at Vout rated, lout rated, approx.	11 W		
Closed-loop control			
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %		
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %		
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	3.15 3.6 A		
Current limitation, typ.	3.4 A		
property of the output short-circuit proof	Yes		
Short-circuit protection	Electronic shutdown, automatic restart		
Overload/short-circuit indicator			
	-		
Safety			
	Yes		
Safety Primary/secondary isolation galvanic isolation	- Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178		
Primary/secondary isolation			
Primary/secondary isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178		
Primary/secondary isolation galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2		
Primary/secondary isolation galvanic isolation Protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2		
Primary/secondary isolation galvanic isolation Protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark EMC	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark Emitted interference	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes EN 55022 Class B		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark Emitted interference Supply harmonics limitation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes EN 55022 Class B EN 61000-3-2		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark Emitted interference Supply harmonics limitation Noise immunity	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes EN 55022 Class B EN 61000-3-2		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature in horizontal mounting position	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes EN 55022 Class B EN 61000-3-2 EN 61000-6-2		
Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical Degree of protection (EN 60529) Approvals CE mark Emitted interference Supply harmonics limitation Noise immunity environmental conditions ambient temperature in horizontal mounting position during operation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I 3.5 mA 0.4 mA IP20 Yes EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -40 +70; with natural convection		

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 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. 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 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	50 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.	0.45 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Can be mounted onto S7-1500 rail
MTBF at 40 °C	1 611 993 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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