SIEMENS

Data sheet

6AG1334-2BA20-4AA0

SIPLUS PS PSU100S 24 V/10 A

SIPLUS PSU100S 24 V/10 A FOR medial stress based on 6EP1334-2BA20 . STABILIZED POWER SUPPLY INPUT: OUTPUT: 24 V/10 A DC

Input 1-phase AC automatic range selection Automatic range selection supply voltage 120 V • 1 at AC rated value 230 V Input voltage 120 V • 2 at AC rated value 230 V Input voltage 85 132 V • 2 at AC 170 264 V Wide-range input No Overvoltage resistance 23 × Vin rated, 1.3 ms Mains buffering at Vin = 93/187 V Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz Rated line frequency 1 191 A Switch-on current limiting (+25 *C), max. 60 A * at rated input voltage 230 V 191 A Switch-on current limiting (+25 *C), max. 60 A Primax. 5.6 Ars Bullt-in incoming fuse T 6.3 Ar250 V (not accessible) Protection in the mains power input (IEC 898) Controlled, isolated	Input	
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• 1 at AC rated value 120 V • 2 at AC rated value 230 V input voltage 230 V • 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 Vin = 93/187 V Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz Rated line frequency 2 60 Hz Rated line frequency 2 60 Hz et rated input voltage 120 V 4.49 A • at rated input voltage 230 V 191 A Switch-on current limiting (+25 °C), max. 60 A Pr, max. 56 A*s Built-in incoming fuse T 6.3 A2520 v (not accessible) Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic C Output Controlled, isolated DC voltage Output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V Static mains compensation, approx. 1% Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, max. 150 mV	Note	Automatic range selection
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• 1 at ÅC 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 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 47 63 Hz input current 4.49 A • at rated input voltage 120 V 4.49 A • at rated input voltage 230 V 1.91 A Switch-on current limiting (+25 °C), max. 60 A Pr. max 50 A * 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: from 10 A characteristic C Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • output voltage at output 1 at DC rated value 24 V • Output voltage at output 1 at DC rated value 24 V • Output voltage at outpu	 2 at AC rated value 	230 V
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Rated current value lout rated 10 A Current range 0 12 A	Startup delay, max.	0.3 s
Rated current value lout rated 10 A Current range 0 12 A	Voltage rise, typ.	20 ms
Current range 0 12 A		10 A
• Note 12 A up to ±45°C+ ±60 = ±70 °C+ Denoting 20/ //		0 12 A
• Note 12 A up to +45°C; +60 +70 °C: Derating 3%/K		

supplied active power typical	288 W
short-term overload current	
 on short-circuiting during the start-up typical 	32 A
 at short-circuit during operation typical 	32 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	1 000 ms
at short-circuit during operation	1 000 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	25 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Output overvoltage protection	protection against overvoltage in case of internal fault Vout < 33 V
Current limitation	
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	14.6 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	
Safety	
	Ver
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
leakage current	0.5
• maximum	3.5 mA
• typical	0.8 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	-25 +70; with natural convection
during operation	
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 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-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
● right	0 mm
Weight, approx.	0.8 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 614 510 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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