## 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

Figure similar

Input	
Input	1-phase AC
Note	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
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	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.49 A
<ul> <li>at rated input voltage 230 V</li> </ul>	1.91 A
Switch-on current limiting (+25 °C), max.	60 A
l²t, max.	5.6 A <sup>2</sup> ·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	
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 ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	160 mV
Adjustment range	22.8 28 V
product function output voltage adjustable	Yes

Output valtage patting	
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	0.3 s
Voltage rise, typ.	20 ms
Rated current value lout rated	10 A
Current range	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	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	32 A
at short-circuit during operation typical	32 A
duration of overloading capability for excess current	4.000
<ul> <li>on short-circuiting during the start-up</li> </ul>	1 000 ms
at short-circuit during operation	1 000 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
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	12 14.6 A
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	
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	
maximum	3.5 mA
• typical	0.8 mA
Degree of protection (EN 60529)	IP20
Approvals	Vee
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	-25 +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 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
Connection technology Connections	screw-type terminals
	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded
Connections	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely
Connections • Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded
Connections • Supply input • Output	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>
Connections <ul> <li>Supply input</li> <li>Output</li> <li>Auxiliary</li> </ul>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
Connections • Supply input • Output • Auxiliary width of the enclosure	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm
Connections <ul> <li>Supply input</li> <li>Output</li> <li>Auxiliary</li> </ul> <li>width of the enclosure</li> <li>height of the enclosure</li>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm 125 mm
Connections <ul> <li>Supply input</li> <li>Output</li> <li>Auxiliary</li> </ul> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm 125 mm
Connections • Supply input • Output • Auxiliary width of the enclosure height of the enclosure depth of the enclosure required spacing	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm 125 mm 120 mm
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Connections <ul> <li>Supply input</li> <li>Output</li> <li>Auxiliary</li> </ul> <li>width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> </li> <li>Weight, approx.</li> <li>product feature of the enclosure housing can be lined up</li> </ul></li>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm 125 mm 120 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0.8 kg Yes
Connections <ul> <li>Supply input</li> <li>Output</li> <li>Auxiliary</li> </ul> <li>width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> </li> <li>Weight, approx. <ul> <li>product feature of the enclosure housing can be lined up</li> <li>Installation</li> </ul> </li> </ul></li>	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0.8 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15

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