Data sheet

SIPLUS LOGO! POWER 24V 1.3A SIPLUS LOGO! Power 24V 1,3A for medial stress -40...+70°C start up at -25°C based on 6EP3331-6SB00-0AY0 . stabilized power supply input: AC 100-240 V output: DC 24 V / 1,3 A



Input	
Input	1-phase AC or DC
Rated voltage value Vin rated	100 240 V
Voltage range AC	85 264 V
input voltage	
• at DC	110 300 V
Wide-range input	Yes
Mains buffering	at Vin = 187 V
Mains buffering at lout rated, min.	40 ms; at Vin = 187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
 at rated input voltage 120 V 	0.7 A
 at rated input voltage 230 V 	0.35 A
Switch-on current limiting (+25 °C), max.	25 A
l²t, max.	0.8 A ^{2.} s
Built-in incoming fuse	internal

Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

	or from 2 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
Adjustment range	22.2 26.4 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	100 ms
Rated current value lout rated	1.3 A
Current range	0 1.3 A
Note	+55 +70 °C: Derating 2%/K
supplied active power typical	31.2 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	86 %
Power loss at Vout rated, lout rated, approx.	5 W
power loss [W] during no-load operation maximum	0.3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.2 %
max.	4.0/
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	1 %
typ. Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ.	1 ms
Load step setting time so to 10 /0, typ.	i iiio
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	1.7 A
property of the output short-circuit proof	Yes
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Constant current characteristic

Short-circuit protection

6AG1331-6SB00-7AY0

enduring short circuit current RMS value	
• maximum	1.7 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
Overload/short-circuit indicator	•
measuring point for output current	50 mV =^ 1.3 A
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
Noise minuting	2110100002
environmental conditions	
ambient temperature in horizontal mounting position during operation	-40; Startup @ -25 °C +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	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
conformity acc. to EN 60721-3-6	,



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: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	-
width of the enclosure	36 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
• top	20 mm
• bottom	20 mm
● left	0 mm
• right	0 mm
Weight, approx.	0.12 kg
product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	3 094 996 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

