SIEMENS

Data sheet

6AG1333-6SB00-7AY0





SIPLUS LOGO! Power 24V 4A for medial stress -40...+70°C start up at -25°C based on 6EP3333-6SB00-0AY0 . stabilized power supply input: 100-240 V AC output: 24 V / 1.3 A DC

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 	1.95 A
 at rated input voltage 230 V 	0.97 A
Switch-on current limiting (+25 °C), max.	31 A
I²t, max.	2.5 A ² ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic B or from 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 ±	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

Outrout valtage action	via natantianatan
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	4 A
Current range	0 4 A
Note	+55 +70 °C: Derating 2%/K
supplied active power typical	96 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	<u>, </u>
Efficiency at Vout rated, lout rated, approx.	89 %
Power loss at Vout rated, lout rated, approx.	12 W
power loss [W] during no-load operation maximum	0.3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
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	Yes, according to EN 60950-1
Current limitation, typ.	5 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
	Constant current characteristic
enduring short circuit current RMS value	F A
• maximum	5 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 =^ 4 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	EN 61000-3-2
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature in horizontal mounting position	-40; Startup @ -25 °C +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
relative humidity with condensation acc. to IEC 60068-2-	temperature by 5 K/1000 m 100 %; RH incl. condensation/frost (no commissioning if condensation is
38 maximum	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
resistance to chemically active substances conformity acc.	upon request Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52

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: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm²
Auxiliary	
width of the enclosure	72 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.	0.29 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 391 480 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

