6AG1333-6SB00-7AY0

Data sheet



SIPLUS LOGO! POWER 24V 4A

SIPLUS LOGO! power 24 V 4 A based on 6EP3333-6SB00-0AY0 with conformal coating, -40...+70 °C, start up -25 °C, stabilized power supply input: 100-240 V AC output: 24 V DC / 4 A

| Input | |
|--|--|
| type of the power supply network | 1-phase AC or DC |
| supply voltage at AC | |
| minimum rated value | 100 V |
| maximum rated value | 240 V |
| • initial value | 85 V |
| • full-scale value | 264 V |
| input voltage | |
| • at DC | 110 300 V |
| design of input wide range input | Yes |
| operating condition of the mains buffering | at Vin = 187 V |
| buffering time for rated value of the output current in the event of power failure minimum | 40 ms |
| operating condition of the mains buffering | at Vin = 187 V |
| line frequency | |
| • 1 rated value | 50 Hz |
| 2 rated value | 60 Hz |
| line frequency | 47 63 Hz |
| input current | |
| • at rated input voltage 120 V | 1.95 A |
| at rated input voltage 230 V | 0.97 A |
| current limitation of inrush current at 25 °C maximum | 31 A |
| I2t value maximum | 2.5 A²·s |
| fuse protection type | internal |
| • in the feeder | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |
| Output | |
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 24 V |
| output voltage | |
| at output 1 at DC rated value | 24 V |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| on slow fluctuation of input voltage | 0.1 % |
| on slow fluctuation of ohm loading | 0.1 % |
| residual ripple | |
| • maximum | 200 mV |
| • typical | 30 mV |
| voltage peak | |
| • maximum | 300 mV |
| • typical | 50 mV |

| product function output voltage adjustable Yes vap cetationates vape of cuptar voltage setting vape of cuptar voltage setting vape of cuptar voltage setting vape of the output voltage when switching on 0.5 a vape of the output voltage of the output voltage vape of the output voltage | | 20.0 |
|--|--|--|
| Spee of public violage setting via potentionneter via | adjustable output voltage | 22.2 26.4 V |
| Image: Common or normal operation Common | product function output voltage adjustable | Yes |
| behavior of the output voltage when switching on exponse delay maximum voltage increase time of the output voltage 100 ms 100 | type of output voltage setting | via potentiometer |
| Inspance delay maximum 0.5 s | display version for normal operation | Green LED for output voltage OK |
| voluge increase time of the output voltage • typical output current • rated value • rated value • rated value • bridging of equipment • bridging of equipment resources for increasing the power • bridging of equipment resources for increasing the power • bridging of equipment • bridging of equipment (as power base) (by the po | behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| output current - rated value - rated range - stated range - stated range - bridging of equipment resources for increasing the power - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging of equipment resources for increasing - bridging of equipment - bridging of equipment resources for increasing - bridging equipment resources for increasing - bridging equipment resources for increasing - bridging equipment resources for equipment resources | response delay maximum | 0.5 s |
| output current * rated value * rated output votage for rated value of the output current typical * rated output votage for rated value of the output current typical * rated output votage for rated value of the output current typical * rated output votage for rated value of the output votage value * rated value * | voltage increase time of the output voltage | |
| * rated value * rated range * ou | • typical | 100 ms |
| • releating region and report typical • bridging of equipment • bridging of equipment resources for increasing the power **Efficiency • bridging of equipment resources for increasing the power **Efficiency • bridging of equipment resources for increasing the power **Efficiency • difficiency • at rated output voltage for rated value of the output difficiency of the power toss [V] • at rated output voltage for rated value of the output difficiency of the output voltage with rapid fluctuation of the input voltage by 1-15% typical **Eather control protection of the output voltage with rapid fluctuation of the input voltage by 1-15% typical • load step 10 to 90% typi | output current | |
| supplied active power typical product feature bridging of equipment subridging of equipment resources for increasing to power fefficiency in percent power loss [W] claim pro-bad operation maximum discretely possible of the output voltage for rated value of the output current lypical cu | • rated value | 4 A |
| product feature • bridging of equipment • bridging of equipment resources for increasing the power **Efficiency by percent • B99 % • at rated output voltage for rated value of the output current hybrid output voltage for rated value of the output current hybrid output voltage of rated value of the output voltage or rated value of the output voltage volta | rated range | 0 4 A; +55 +70 °C: Derating 2%/K |
| bridging of equipment of parallet-switched equipment resources for increasing the power of parallet-switched equipment resources for increasing the power of parallet-switched equipment resources for increasing the power to parallet switched equipment resources for increasing the power to parallet switched equipment resources for increasing the power to parallet switched equipment resources for increasing the power to parallet switched equipment parallet switched power to | supplied active power typical | 96 W |
| turber of parallel-switched equipment resources for increasing to power for the power | product feature | |
| the power is cliciancy efficiency effi | bridging of equipment | Yes |
| efficiency in percent 98 % efficiency prover loss [VI] at rated output voltage for rated value of the output current typical during no-load operation maximum 0.3 W Closed-toop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage at load step of resistive load 109/010 % typical relative control precision of the output voltage at load step of resistive load 109/010 % typical else of the processing of the output voltage at load step of resistive load 109/010 % typical else of the policy of the output short-directly proof of the output short directly proof of the output short directly proof overland and short circuit overcurrent overload capability in normal operation overload capability when switching on 150% lout rated typ. 200 ms Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 (class II (without protective conductor) protection class IP (class II (without protective conductor) protection directly of the mismatch of the output short protective conductor) entricated of suitability • CE marking * CF marking * Or marking position during operation • for marking position during operatio | number of parallel-switched equipment resources for increasing | 2 |
| efficiency in percent power loss [W] | the power | |
| power loss [W] at rated output voltage for rated value of the output current typical during no-load operation maximum output typical relative control precision of the output voltage with rapid fluctuation of the input voltage by 9'15% typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical a load step 10 to 90% typical a load step 10 to 90% typical a load step 90 to 10% typical b load step 90 to 10% typical certificate of worth circuit profection a load step 90 to 10% typical b load step 90 to 10% typical certificate of suntain monitoring Ves. according to EN 60950-1 5 A covercurent overload capability in normal operation overcurent overload capability in normal operation overcurent overload capability when switching on standard overcurent overload capability when switching on standard operating resource protection class Class II (without protective conductor) protection class IP Approvals certificate of suitability of or emitted Interference of or mains harmonics limitation of outring storage and transport in horizontal mounting position during operation of outring storage and transport ambient temperature on horizontal mounting position during operation abbient conditions ambient temperature on horizontal mounting position during operation abbient temperature on horizontal mounting position during operation abbient temperature and proper and a therefore the propersure and propersure and propersure and propersure on the formation of the ambient temperature and propersure and pr | Efficiency | |
| a tarticle duptry voltage for rated value of the output current typical be during no-load operation maximum 0.3 W Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by 4r- 15% typical relative control precision of the output voltage at load step of resistive load 1090/10 % typical relative control precision of the output voltage at load step of resistive load 1090/10 % typical relative control protection and monitoring design of the overvoltage protection Pypical Popical | efficiency in percent | 89 % |
| current typical | power loss [W] | |
| during no-load operation maximum | | 12 W |
| Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +*- 15% typical relative control precision of the output voltage at load step of relative control precision of the output voltage at load step of relative control precision of the output voltage at load step of relative control precision of the output voltage at load step of relative control precision of the output voltage at load step of resistive load 1090/10 % typical setting time • load step 10 to 90% typical 1 ms Protection and monitoring design of the overvoltage protection • typical setting time • load step 90 to 10% typical flow second of the output short-circuit proof Yes, according to EN 60950-1 5 A property of the output short-circuit proof design of short-circuit protection • overcurent overload capability in normal operation shoplay version for overload and short circuit measuring point for output current 50 mV = ^ 4 A overcurrent overload capability when switching on 150% lout rated typ. 200 ms Safety galvanic isolation between input and output Yes galvanic isolation between input and output Yes galvanic isolation between input and output Yes galvanic isolation operating resource protection class Protection class IP IP20 Approvals certificate of suitability • CE marking Yes EMC standard • for emitted interference • for mains harmonics limitation • for mitted interference • for mains harmonics limitation • for interference immunity protromental canditions ambient temperature • in horizontal mounting position during operation • during storage and transport • during storage and transport • and intude at height above sea level maximum ambient condition relating to ambient temperature - air pressure installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure installation altitude of 2000 - 6000 m above sea level: Output prover dereiting of -7.5 %/1000 m or reduction of the ambi | current typical | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +'- 15% typical resistive toad 10/90/10 % typical 2 % **Constant Current Control of the Control of the Section of the | during no-load operation maximum | 0.3 W |
| fluctuation of the input voltage by 4/- 15% typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical setting time load step 10 to 90% typical 1 ms load step 90 to 10% typical 1 ms load step 90 to 10% typical 1 ms very color of the overvoltage protection 5 A solid specified by the output short-circuit proof 5 A property of the output short-circuit proof 7 es design of short-circuit protection 2 onstant current characteristic enduring short circuit current RMS value 1 | Closed-loop control | |
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| setting time load step 90 to 10% typical load step 90 to 10% typical design of the overvoltage protection load step 90 to 10% typical step 90 to 10% typical design of the overvoltage protection load step 90 to 10% typical step 90 to 10% typi | | 2 % |
| • load step 10 to 90% typical • load step 90 to 10% typical Protection and monitoring design of the overvoltage protection • typical • to constant current characteristic • enduring short circuit proof • design of short-circuit protection • enduring short circuit current RMS value • maximum • maximum • to A overcurrent overload capability in normal operation • overload capability 150% lout rated typ. 200 ms display version for overload and short circuit • measuring point for output current • 50 mV = 4 A overcurrent overload capability when switching on Safety galvanic isolation between input and output Yes galvanic isolation between input and output Yes galvanic isolation • Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 operating resource protection class Certificate of suitability • CE marking For emitted interference • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity • Ten 61000-8-2 environmental conditions ambient temperature • in horizontal mounting position during operation • during storage and transport • 40 +85 °C Installation altitude at height above sea level maximum ambient condition relating to ambient temperature – air pressure - installation altitude at height above sea level maximum ambient condition or reduction of the ambient temperature by 5 | · | |
| | - | 1 ms |
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| • for interference immunity EN 61000-6-2 environmental conditions ambient temperature • in horizontal mounting position during operation • during storage and transport installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude • for interference immunity EN 61000-6-2 -40; Startup @ -25 °C +70 °C; with natural convection -40 +85 °C installation altitude at height above sea level maximum 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 | • for emitted interference | EN 55022 Class B |
| ambient temperature | • for mains harmonics limitation | EN 61000-3-2 |
| ambient temperature | • for interference immunity | EN 61000-6-2 |
| ambient temperature ● in horizontal mounting position during operation ● during storage and transport installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude -40; Startup @ -25 °C +70 °C; with natural convection -40 +85 °C 6 000 m 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 | environmental conditions | |
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| - installation altitude power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 | | |
| | | power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 |

| relative humidity with condensation according 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 according to EN 60721-3-3 | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request |
| resistance to chemically active substances conformity according 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 according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust |
| resistance to biologically active substances conformity according to EN 60721-3-6 | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) |
| resistance to chemically active substances conformity according 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 according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust |
| coating for equipped printed circuit board according 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 according 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 according to IPC-CC-830A | Yes; Conformal Coating, Class A |
| | |
| Mechanics | |
| Mechanics type of electrical connection | screw-type terminals |
| | screw-type terminals L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded |
| type of electrical connection | ** |
| type of electrical connection • at input | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm |
| type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 20 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 0 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 0 mm 0 mm |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 0 mm 0 mm 0 mm |
| type of electrical connection at input at output for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing top bottom left right net weight product feature of the enclosure housing can be lined up | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 0 mm 0 mm 0 mm 0.29 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting |
| type of electrical connection | L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm² - 72 mm 90 mm 53 mm 20 mm 0 mm 0 mm 0 mm 0 mm 0.29 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |



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