SIEMENS

Data sheet

6EP1322-2BA00



SITOP PSU100S/1AC/12VDC/7A

SITOP PSU100S 12 V/7 A stabilized power supply input: 120/230 V AC output: 12 V DC/7 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
 2 at AC rated value 	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 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 	1.73 A
 at rated input voltage 230 V 	0.99 A
current limitation of inrush current at 25 °C maximum	45 A
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
 at output 1 at DC rated value 	12 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 	1 %
residual ripple	
• maximum	150 mV
• typical	20 mV
voltage peak	
• maximum	240 mV
• typical	100 mV
adjustable output voltage	11.5 15.5 V

product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 12 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 3 %
response delay maximum	0.3 s
voltage increase time of the output voltage	
• typical	10 ms
output current	
rated value	7 A
 rated range 	0 7 A; +50 +70 °C: Derating 0.75%/K
supplied active power typical	84 W
short-term overload current	
 on short-circuiting during the start-up typical 	25 A
 at short-circuit during operation typical 	25 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	800 ms
 at short-circuit during operation 	800 ms
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	84 %
power loss [W]	
 at rated output voltage for rated value of the output 	15 W
current typical	
Closed-loop control	
relative control precision of the output voltage at load step	5 %
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 Protection and monitoring	1 ms
	1 ms < 20 V
Protection and monitoring	
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof	< 20 V 7 8.8 A Yes
Protection and monitoring design of the overvoltage protection response value current limitation	< 20 V 7 8.8 A
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof	< 20 V 7 8.8 A Yes
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection	< 20 V 7 8.8 A Yes
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	< 20 V 7 8.8 A Yes Constant current characteristic
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min -
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min -
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	< 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	 < 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	 < 20 V 7 8.8 A Yes Constant current characteristic 8.8 A overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA
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type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-25 +70 °C; with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
	screw-type terminals
Mechanics	
Mechanics type of electrical connection	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely
Mechanics type of electrical connection • at input	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
Mechanics type of electrical connection • at input • at output	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm 50 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure height of the enclosure required spacing • top • bottom • left • right	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm 50 mm 0 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0.5 kg
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact 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	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0.5 kg Yes
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact 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 fastening method	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 50 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0.5 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15

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