SIEMENS

Data sheet

6EP1334-2AA01-0AB0



SITOP SMART/1AC/24VDC/10A/WALL MOUNTING

SITOP smart 240 W Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A Option for for wall mounting

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Set by means of selector switch on the device
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 	4.1 A
 at rated input voltage 230 V 	2.4 A
current limitation of inrush current at 25 °C maximum	65 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I2t value maximum	3.3 A ² ·s
fuse protection type	T 6.3 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 10 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 	0.5 %
residual ripple	
• maximum	150 mV

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• typical	50 mV
voltage peak	
• maximum	240 mV
• typical	150 mV
adjustable output voltage	22.8 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 4 %
response delay maximum	0.1 s
voltage increase time of the output voltage	
• typical	50 ms
output current	
 rated value 	10 A
rated range	0 12 A; 12 A up to +45 °C
supplied active power typical	288 W
short-term overload current	
 on short-circuiting during the start-up typical 	30 A
 at short-circuit during operation typical 	33 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	100 ms
 at short-circuit during operation 	200 ms
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
 at rated output voltage for rated value of the output 	27 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
 load step 50 to 100% typical 	0.2 ms
 load step 100 to 50% typical 	0.2 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
response value current limitation	12.5 13.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	16 A
display version for overload and short circuit	
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Safety	
Safety galvanic isolation between input and output	
galvanic isolation between input and output	Yes
galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
galvanic isolation between input and output galvanic isolation operating resource protection class	Yes
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 Yes
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259

certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
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	-
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 60 °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	
type of electrical connection	screw-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
at output	L+, M: 2 screw terminals each for 0.5 2.5 mm ²
for auxiliary contacts	-
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.85 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Wall mounting
MTBF at 40 °C	1 460 803 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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