6EP1334-2AA01-0AB0

## **Data sheet**



## 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	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.1 A
<ul> <li>at rated input voltage 230 V</li> </ul>	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 <sup>2</sup> ·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

• typical	50 mV
voltage peak	30 1117
maximum	240 mV
• typical	150 mV
adjustable output voltage	22.8 28 V
· · · · · · · · · · · · · · · · · · ·	Yes
product function output voltage adjustable	
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	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	30 A
at short-circuit during operation typical	33 A
duration of overloading capability for excess current	
<ul> <li>on short-circuiting during the start-up</li> </ul>	100 ms
at short-circuit during operation	200 ms
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	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	1 %
resistive load 50/100/50 % typical	
setting time	0.0
• 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	
Safety	
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	Class I
leakage current	
maximum	3.5 mA
• typical	0.8 mA
protection class IP	IP20
Approvals	20
certificate of suitability	Voc
CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259

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• cCSAus, Class 1, Division 2	No 
• ATEX	No
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	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	-
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 60 °C; with natural convection
<u> </u>	-40 +85 °C
during transport     during storage	-40 +85 °C
	-40 +65 C
during storage     appiremental enterery apparating to IEC 60721	Climate class 2K2 F 050/ no condensation
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
environmental category according to IEC 60721 Mechanics	
environmental category according to IEC 60721  Mechanics  type of electrical connection	screw-type terminals
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environmental category according to IEC 60721  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 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm² -
environmental category according to IEC 60721  Mechanics  type of electrical connection	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm² - 70 mm
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environmental category according to IEC 60721  Mechanics  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	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm²  - 70 mm 125 mm 125 mm 50 mm
environmental category according to IEC 60721  Mechanics  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	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm²  - 70 mm 125 mm 125 mm 50 mm 50 mm 0 mm 0 mm
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environmental category according to IEC 60721  Mechanics  type of electrical connection         • at input          • 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	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm²  - 70 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 0 mm
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environmental category according to IEC 60721  Mechanics  type of electrical connection         • at input          • 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	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 2 screw terminals each for 0.5 2.5 mm²  - 70 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 0 mm

