



SITOP PSU4200/1AC/24VDC/3A

SITOP PSU4200 1AC 24 V/3 A stabilized power supply PSU4200 input: 120/240 V AC output: 24 V DC/3 A

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP3332-3SB00-0AX0
input	
type of the power supply network	1-phase AC
supply voltage at AC	Automatic range selection
supply voltage 1 at AC	100 ... 120 V
supply voltage 2 at AC	200 ... 240 V
input voltage 1 at AC	85 ... 132 V
input voltage 2 at AC	187 ... 264 V
wide range input	No
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at $V_{in} = 120/240\text{ V}$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 100 V	1.5 A
• at rated input voltage 120 V	1.3 A
• at rated input voltage 200 V	0.9 A
• at rated input voltage 230 V	0.73 A
• at rated input voltage 240 V	0.7 A
current limitation of inrush current at 25 °C maximum	45 A
duration of inrush current limiting at 25 °C	
• typical	20 ms
I ² t value maximum	1.6 A ² ·s
fuse protection type	3.15 A
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C to from 16 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
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 ... 28 V
relative overall tolerance of the voltage	3 %

relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	150 mV
• typical	40 mV
voltage peak	
• maximum	240 mV
• typical	40 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	190 ms
• maximum	500 ms
output current	
• rated value	3 A
• rated range	0 ... 3 A; +60 to +70 °C: without derating
supplied active power typical	72 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	85 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	13 W
• during no-load operation maximum	2.2 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2.5 %
setting time	
• load step 10 to 90% typical	1 ms
• load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
• typical	3.6 A
enduring short circuit current RMS value	
• typical	3.5 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
• maximum	1.4 mA
• typical	0.7 mA
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 55032 Class A
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	

<ul style="list-style-type: none"> • CE marking • UL approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2 	<p>Yes</p> <p>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
<p>type of certification</p> <ul style="list-style-type: none"> • BIS • CB-certificate 	<p>Yes; R-41183539</p> <p>Yes</p>
<p>MTBF at 40 °C</p>	<p>1 700 000 h</p>
<p>standards, specifications, approvals hazardous environments</p>	
<p>certificate of suitability</p> <ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • FM registration 	<p>No</p> <p>No</p> <p>No</p> <p>No</p>
<p>standards, specifications, approvals marine classification</p>	
<p>shipbuilding approval</p>	<p>No</p>
<p>Marine classification association</p> <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p>
<p>standards, specifications, approvals Environmental Product Declaration</p>	
<p>Environmental Product Declaration</p>	<p>Yes</p>
<p>global warming potential [CO₂ eq]</p> <ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>366 kg</p> <p>13 kg</p> <p>352.3 kg</p> <p>0.38 kg</p>
<p>Siemens Eco Profile (SEP)</p>	<p>Siemens EcoTech</p>
<p>ambient conditions</p>	
<p>ambient temperature</p> <ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
<p>environmental category according to IEC 60721</p>	<p>Climate class 3K3, 5 ... 95% no condensation</p>
<p>connection method</p>	
<p>type of electrical connection</p> <ul style="list-style-type: none"> • at input • at output 	<p>push-in terminals</p> <p>L, N, PE: push-in for 0.5 ... 4 mm²</p> <p>+, -: push-in for 0.5 ... 2.5 mm²</p>
<p>mechanical data</p>	
<p>width × height × depth of the enclosure</p>	<p>50 × 135 × 125 mm</p>
<p>installation width × mounting height</p>	<p>50 mm × 225 mm</p>
<p>required spacing</p> <ul style="list-style-type: none"> • top • bottom • left • right 	<p>45 mm</p> <p>45 mm</p> <p>0 mm</p> <p>0 mm</p>
<p>fastening method</p> <ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	<p>Snaps onto DIN rail EN 60715 35x7.5/15</p> <p>Yes</p> <p>No</p> <p>Yes</p>
<p>housing can be lined up</p>	<p>Yes</p>
<p>net weight</p>	<p>0.44 kg</p>
<p>further information internet links</p>	
<p>internet link</p> <ul style="list-style-type: none"> • to website: Industry Mall 	<p>https://mall.industry.siemens.com</p>

- to web page: selection aid TIA Selection Tool
- to web page: power supplies
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://www.siemens.com/tstcloud>
- <https://siemens.com/sitop>
- <https://siemens.com/cax>
- <https://support.industry.siemens.com>

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

Environmental Product Declaration

- | | |
|--|----------|
| • global warming potential [CO2 eq] / during manufacturing | 13 kg |
| • global warming potential [CO2 eq] / during operation | 352.3 kg |
| • global warming potential [CO2 eq] / after end of life | 0.38 kg |
| • global warming potential [CO2 eq] / total | 366 kg |

Environment

General Product Approval



[Manufacturer Declaration](#)



[China RoHS](#)

General Product Approval



[BIS CRS](#)

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