



SITOP PSU6200/1AC/24VDC/3.7A/NECclass2

SITOP PSU6200 3.7 A NEC class II stabilized power supply input: 120 - 240 V AC (120 - 240 V DC) output: 24 V DC/3.7 A

input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
supply voltage at DC	120 ... 240 V
input voltage at DC	99 ... 275 V
wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
buffering time for rated value of the output current in the event of power failure minimum	90 ms
operating condition of the mains buffering	at $V_{in} = 240\text{ V}$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.5 A
• at rated input voltage 240 V	0.8 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	3.15 A
fuse protection type in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
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; max. 89 W
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	30 mV
• typical	20 mV
voltage peak	
• maximum	100 mV

• typical	60 mV
display version for normal operation	Green LED for 24 V OK
type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.
behavior of the output voltage when switching on	Overshoot of $V_{out} < 2\%$
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 ms
output current	
• rated value	3.7 A
• rated range	0 ... 3.7 A; +60 ... +70 °C: Derating 3%/K
supplied active power typical	89 W
short-term overload current	
• on short-circuiting during the start-up typical	3.7 A
• at short-circuit during operation typical	3.7 A
bridging of equipment	No
efficiency	
efficiency in percent	89.3 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	11 W
• during no-load operation maximum	2.2 W
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
• load step 10 to 90% typical	2 ms
• load step 90 to 10% typical	2 ms
• maximum	3 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
• typical	3.7 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	ES1 output voltage V_{out} according to EN 62368-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• UKCA marking	Yes
• EAC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
• NEC Class 2	Yes; according to UL1310, File E151273
• SEMI F47	Yes
type of certification	
• BIS	Yes; R-41188271
• CB-certificate	Yes
standards, specifications, approvals hazardous environments	

certificate of suitability	
<ul style="list-style-type: none"> • IECEX • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<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>Yes</p> <p>No</p> <p>Yes</p> <p>No</p>
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>357.7 kg</p> <p>13.1 kg</p> <p>344.2 kg</p> <p>0.33 kg</p>
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-30 ... +70; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C</p> <p>-40 ... +85</p> <p>-40 ... +85</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	push-in terminals
<ul style="list-style-type: none"> • at input • at output • for auxiliary contacts 	<p>L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm² single-core/finely stranded</p> <p>+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²</p> <p>13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²</p>
mechanical data	
width × height × depth of the enclosure	35 × 135 × 125 mm
installation width × mounting height	35 mm × 225 mm
required spacing	
<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>
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
<ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	<p>Yes</p> <p>No</p> <p>No</p>
housing can be lined up	Yes
net weight	0.7 kg
accessories	
electrical accessories	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links	
internet link	
<ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support 	<p>https://mall.industry.siemens.com</p> <p>https://www.siemens.com/tstcloud</p> <p>https://siemens.com/sitop</p> <p>https://siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
identification link	Yes; acc. to IEC 61406-1:2022
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	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

other



[Confirmation](#)



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Environment

[Environmental Confirmations](#)

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