



SITOP PSU6200/1AC/12VDC/2A

SITOP PSU6200 12 V/2 A stabilized power supply input: 120 - 240 V AC (120 - 240 V DC) output: 12 V DC/2 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP3321-7SB00-0AX0>

input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> <li>• minimum rated value</li> <li>• maximum rated value</li> <li>• initial value</li> <li>• full-scale value</li> </ul>	120 V 240 V 85 V 264 V
supply voltage at DC	120 ... 240 V
input voltage at DC	110 ... 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	150 ms
operating condition of the mains buffering	at $V_{in} = 240 V$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> <li>• at rated input voltage 120 V</li> <li>• at rated input voltage 240 V</li> </ul>	0.45 A 0.25 A
current limitation of inrush current at 25 °C maximum	32 A
fuse protection type	3.15 A
fuse protection type in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic 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	12 V
output voltage	
<ul style="list-style-type: none"> <li>• at output 1 at DC rated value</li> </ul>	12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	10.5 ... 12.9 V; max. 24 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> <li>• on slow fluctuation of input voltage</li> <li>• on slow fluctuation of ohm loading</li> </ul>	0.3 % 0.3 %
residual ripple	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• typical</li> </ul>	30 mV 20 mV

voltage peak	
• maximum	20 mV
• typical	10 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	
• typical	50 ms
output current	
• rated value	2 A
• rated range	0 ... 2 A
supplied active power typical	24 W
short-term overload current	
• on short-circuiting during the start-up typical	2 A
• at short-circuit during operation typical	2 A
bridging of equipment	No
<b>efficiency</b>	
efficiency in percent	83.3 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	5 W
• during no-load operation maximum	0.8 W
<b>closed-loop control</b>	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	4 %
setting time	
• load step 10 to 90% typical	2 ms
• load step 90 to 10% typical	2 ms
• maximum	3 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	< 20 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
• typical	2.8 A
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	ES1 output voltage Vout according to EN 62368-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
protection class IP	IP20
<b>EMC</b>	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• 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-41183539
• CB-certificate	Yes
<b>standards, specifications, approvals hazardous environments</b>	

certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• FM registration	No

#### standards, specifications, approvals marine classification

shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	No
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	No

#### standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	140.9 kg
• during manufacturing	5.2 kg
• during operation	135.6 kg
• after end of life	0.15 kg

#### ambient 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

#### connection method

type of electrical connection	push-in terminals
• at input	L1/+, L2/N/-, PE: push-in for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
• at output	+1, -1, -2: push-in for 0.5 ... 2.5 mm <sup>2</sup>
• for auxiliary contacts	-

#### mechanical data

width × height × depth of the enclosure	25 × 100 × 88 mm
installation width × mounting height	25 mm × 200 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	No
housing can be lined up	Yes
net weight	0.2 kg

#### accessories

electrical accessories	Redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0

#### further information internet links

internet link	
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: power supplies	<a href="https://siemens.com/sitop">https://siemens.com/sitop</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### additional information

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

security information	Siemens provides products and solutions with industrial cybersecurity functions
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that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

### 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

#### General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)

#### General Product Approval

#### Maritime application

[China RoHS](#)



[BIS CRS](#)



### Environment



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