

Siemens
EcoTech



SITOP PSU6200/1AC/24VDC/20A

SITOP PSU6200 24 V/20 A stabilized power supply input: 120 - 240 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface



Technical Product Detail Page

<https://i.siemens.com/1P6EP3336-7SB00-3AX0>

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	110 ... 240 V
input voltage at DC	85 ... 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	25 ms
operating condition of the mains buffering	at $V_{in} = 240 V$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	4.4 A
• at rated input voltage 240 V	2.2 A
current limitation of inrush current at 25 °C maximum	12 A
fuse protection type	10 A
fuse protection type in the feeder	Circuit breaker from 6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1HA10 (setting 8A) or 3RV2711-1HD10 (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. 480 W (576 W up to 45°C)
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	0.2 %

residual ripple	
• maximum	80 mV
• typical	50 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. or diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 ms
output current	
• rated value	20 A
• rated range	0 ... 20 A; 24 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
• on short-circuiting during the start-up typical	30 A
• at short-circuit during operation typical	30 A
parallel switching of outputs	can be set with DIP switch
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	95.5 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	25 W
• during no-load operation maximum	2.6 W
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
• load step 10 to 90% typical	0.5 ms
• load step 90 to 10% typical	0.5 ms
• maximum	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	Shutdown and periodic restart attempts
• typical	30 A
overcurrent overload capability	
• in normal operation	overload capability 150 % Iout rated up to 5 s/min
safety	
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
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 style="list-style-type: none"> • UL approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2 • SEMI F47 	<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>Yes</p>
<p>type of certification</p> <ul style="list-style-type: none"> • BIS • CB-certificate 	<p>Yes; R-41188271</p> <p>Yes</p>

standards, specifications, approvals hazardous environments

<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>
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standards, specifications, approvals marine classification

<p>shipbuilding approval</p>	<p>Yes</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>Yes</p> <p>No</p> <p>Yes</p> <p>No</p>

standards, specifications, approvals Environmental Product Declaration

<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>811.6 kg</p> <p>28 kg</p> <p>782.6 kg</p> <p>0.7 kg</p>
<p>Siemens Eco Profile (SEP)</p>	<p>Siemens EcoTech</p>

ambient conditions

<p>ambient temperature</p> <ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C</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>

connection method

<p>type of electrical connection</p> <ul style="list-style-type: none"> • at input • at output • for auxiliary contacts 	<p>push-in terminals</p> <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 ... 6 mm²</p> <p>13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²</p>
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mechanical data

<p>width × height × depth of the enclosure</p>	<p>70 × 135 × 155 mm</p>
<p>installation width × mounting height</p>	<p>70 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>No</p>
<p>housing can be lined up</p>	<p>Yes</p>
<p>net weight</p>	<p>1.5 kg</p>

accessories

<p>electrical accessories</p>	<p>Buffer module, redundancy module</p>
<p>mechanical accessories</p>	<p>Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0</p>

further information internet links

internet link	<ul style="list-style-type: none"> • to website: Industry Mall https://mall.industry.siemens.com • to web page: selection aid TIA Selection Tool https://www.siemens.com/tstcloud • to web page: power supplies https://siemens.com/sitop • to website: CAx-Download-Manager https://siemens.com/cax • to website: Industry Online Support https://support.industry.siemens.com
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)
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security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions 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. 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)</p>
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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

General Product Approval



General Product Approval | **Maritime application**





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