



Figure similar

SITOP PSU6200/1AC/24VDC/10A/EX

SITOP PSU6200 Ex 24 V/10 A stabilized power supply input: 120 - 240 V AC
output: 24 V DC/10 A with diagnostic interface with coated printed circuit boards

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	45 ms
operating condition of the mains buffering	at Vin = 240 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	2.2 A
• at rated input voltage 240 V	1.2 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
fuse protection type in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 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	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. 240 W (288 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	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	

• maximum	30 mV
• typical	20 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 < 2 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	200 ms
output current	
• rated value	10 A
• rated range	0 ... 10 A; 12 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	
• on short-circuiting during the start-up typical	12 A
• at short-circuit during operation typical	12 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	92.8 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	18 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	12 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 approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• CSA approval	Yes; CSA C22.2 No. 62368-1
• UKCA marking	Yes
• EAC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
• NEC Class 2	No

type of certification		Yes; R-41188271
• BIS		Yes
standards, specifications, approvals hazardous environments		
certificate of suitability		Yes; IECEx Ex ec nC IIC T3 Gc
• IECEx		Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
• ATEX		Yes
• ULhazloc approval		Yes
• cCSAus, Class 1, Division 2		Yes
• UKEX		Yes
• CCC for hazardous zone according to GB standard		Yes
• 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		581.2 kg
• during manufacturing		16.8 kg
• during operation		563.8 kg
• after end of life		0.42 kg
ambient conditions		
ambient temperature		
• during operation		-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
• 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/-, PE: push-in for 0.5 ... 4 mm ² single-core/finely stranded
• at output		+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm ²
• for auxiliary contacts		13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ²
mechanical data		
width x height x depth of the enclosure		45 x 135 x 125 mm
installation width x mounting height		45 mm x 225 mm
required spacing		
• top		45 mm
• bottom		45 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		0.9 kg
accessories		
electrical accessories		Buffer module, redundancy module
mechanical accessories		Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links		
internet link		
• 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)
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>

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](#)



BIS CRS

For use in hazardous locations

Maritime application



CCC-Ex



Maritime application

Environment



last modified:

4/4/2025