6EP3324-7SB00-3AX0

## **Data sheet**



## SITOP PSU6200/1AC/12VDC/12A

SITOP PSU6200 12 V/12 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 12 V DC/12 A with diagnostics interface

type of the power supply network	1-phase AC or DC
supply voltage at AC minimum rated value	120 240 V
supply voltage at AC maximum rated value	
supply voltage at AC initial value	85 264 V
supply voltage at AC full-scale value	
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	70 ms
operating condition of the mains buffering	at Vin = 240 V
line frequency	50/60 Hz
line frequency initial value	47 63 Hz
line frequency full-scale value	
input current	
at rated input voltage 120 V	1.4 A
• at rated input voltage 240 V	0.8 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	12 V
output voltage	
at output 1 at DC rated value	12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage initial value	12 V
adjustable output voltage full-scale value	15.5 V; max. 144 W (173 W up to 45°C)
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	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	100 ms
output current	
rated value	12 A
rated range	0 12 A; 14.4 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	144 W
short-term overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	14.4 A
at short-circuit during operation typical	14.4 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 in percent	89.3 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	17 W
<ul> <li>during no-load operation maximum</li> </ul>	3 W
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
<ul><li>load step 10 to 90% typical</li></ul>	2 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	2 ms
maximum	3 ms
protection and monitoring	
	< 20 V
protection and monitoring	< 20 V Yes
protection and monitoring design of the overvoltage protection	
protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof	Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection	Yes Shutdown and periodic restart attempts
protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  • typical	Yes Shutdown and periodic restart attempts
protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  • typical  overcurrent overload capability	Yes Shutdown and periodic restart attempts 14.4 A
protection and monitoring  design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection  • typical overcurrent overload capability • in normal operation	Yes Shutdown and periodic restart attempts 14.4 A
protection and monitoring  design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation safety	Yes Shutdown and periodic restart attempts 14.4 A overload capability 150 % lout rated up to 5 s/min
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output	Yes Shutdown and periodic restart attempts 14.4 A overload capability 150 % lout rated up to 5 s/min  Yes
protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  • typical  overcurrent overload capability  • in normal operation  safety  galvanic isolation between input and output galvanic isolation	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic resource protection class	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic resource protection class leakage current	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic resource protection class leakage current • maximum protection class IP standard	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic resource protection class leakage current • maximum protection class IP standard • for emitted interference	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20 EN 55022 Class B
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability • CE marking	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • CSA approval	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • EAC approval	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • CSA approval • Regulatory Compliance Mark (RCM)	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval  • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes Yes Yes No
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • CSA approval • EAC approval • Regulatory Compliance Mark (RCM)	Yes Shutdown and periodic restart attempts 14.4 A  overload capability 150 % lout rated up to 5 s/min  Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes Yes

• BIS	Yes; R-41188271
CB-certificate	Yes
standards, specifications, approvals hazardous environments	165
certificate of suitability	
IECEx	No
• ATEX	No
ULhazloc approval	No
cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	NO
shipbuilding approval	Yes
Marine classification association	165
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No; in preparation
Lloyds Register of Shipping (LRS)	No.
standards, specifications, approvals Environmental Product De	
Environmental Product Declaration	
Global Warming Potential [CO2 eq]	Yes
total	540.5 kg
	549.5 kg 16.8 kg
<ul><li>during manufacturing</li><li>during operation</li></ul>	
during operation     after end of life	532.1 kg
anter end of life     ambient conditions	0.42 kg
ambient temperature	20 ±70 °C; with natural convention a manetonically increasing start or free
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/N/-, PE: push-in for 0.5 4 mm² single-core/finely stranded
• at output	+1, +2, -1, -2, -3: push-in for 0.5 2.5 mm <sup>2</sup>
for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm <sup>2</sup>
mechanical data	
width × height × depth of the enclosure	45 × 135 × 125 mm
installation width × mounting height	45 × 225 mm
required spacing	
• top	45 mm
top     bottom	45 mm 45 mm
• bottom	45 mm
▶ bottom     ▶ left	45 mm 0 mm
<ul><li>bottom</li><li>left</li><li>right</li></ul>	45 mm 0 mm 0 mm
bottom     left     right fastening method	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
bottom     left     right fastening method     standard rail mounting	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes
<ul> <li>bottom</li> <li>left</li> <li>right</li> <li>fastening method</li> <li>standard rail mounting</li> <li>S7 rail mounting</li> </ul>	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
bottom     left     right fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
bottom     left     right fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up net weight	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
bottom     left     right fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up net weight accessories	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up net weight  accessories electrical accessories	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg Redundancy module
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting     housing can be lined up     net weight  accessories     electrical accessories     mechanical accessories	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg Redundancy module
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up net weight  accessories electrical accessories mechanical accessories  further information internet links internet link	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting housing can be lined up net weight  accessories electrical accessories mechanical accessories further information internet links internet link     to web page: selection aid TIA Selection Tool	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting     housing can be lined up     net weight  accessories     electrical accessories     mechanical accessories  further information internet links     internet link     to web page: selection aid TIA Selection Tool     to website: Industrial communication	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0  https://siemens.com/tst http://www.siemens.com/simatic-net
bottom     left     right fastening method     standard rail mounting     S7 rail mounting     wall mounting     wall mounting housing can be lined up net weight accessories electrical accessories mechanical accessories further information internet links internet link     to web page: selection aid TIA Selection Tool     to website: Industrial communication     to website: CAx-Download-Manager	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
bottom     left     right fastening method     standard rail mounting     S7 rail mounting     wall mounting     wall mounting housing can be lined up net weight accessories electrical accessories mechanical accessories further information internet links internet link     to web page: selection aid TIA Selection Tool     to website: Industrial communication     to website: CAx-Download-Manager additional information	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0  https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting     wall mounting housing can be lined up net weight  accessories electrical accessories mechanical accessories further information internet links internet link     to web page: selection aid TIA Selection Tool     to website: Industrial communication     to website: CAx-Download-Manager	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0  https://siemens.com/tst http://www.siemens.com/simatic-net
bottom     left     right  fastening method     standard rail mounting     S7 rail mounting     wall mounting     nousing can be lined up     net weight  accessories electrical accessories mechanical accessories further information internet links internet link     to web page: selection aid TIA Selection Tool     to website: Industrial communication     to website: CAx-Download-Manager additional information	45 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.9 kg  Redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0  https://siemens.com/tst http://www.siemens.com/cax  Specifications at rated input voltage and ambient temperature +25 °C (unless

security information

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Classifications

## Approvals Certificates

**General Product Approval** 





Manufacturer Declaration Declaration of Conformity





**General Product Approval** 

Marine / Shipping

**Environment** 





**BIS CRS** 





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