



SITOP PSU6200/3AC/48VDC/10A

SITOP PSU6200 48 V/10 A Stabilized power supply Input: 400 - 500 V AC Output: 48 V DC/10 A with diagnostic interface

Technical Product Detail Page

<https://i.siemens.com/1P6EP3446-7SB00-3AX0>

input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	323 V
• full-scale value	576 V
supply voltage at DC	500 ... 550 V
input voltage at DC	450 ... 600 V
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 $V_{in} = 400\text{ V}$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	0.77 A
• at rated input voltage 500 V	0.62 A
current limitation of inrush current at 25 °C maximum	17 A
fuse protection type in the feeder	three-poled coupled circuit breaker from 4 A characteristic C 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	48 V
output voltage	
• at output 1 at DC rated value	48 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	48 ... 56 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	0.3 %
• on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	40 mV
• typical	10 mV
voltage peak	
• maximum	30 mV
• typical	20 mV

display version for normal operation	Green LED for 48 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 $V_{out} < 2\%$
response delay maximum	0.5 s
voltage increase time of the output voltage <ul style="list-style-type: none"> • typical 	200 ms
output current <ul style="list-style-type: none"> • rated value • rated range 	10 A 0 ... 10 A; 12 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current <ul style="list-style-type: none"> • on short-circuiting during the start-up typical • at short-circuit during operation typical 	15 A 15 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	96.2 %
power loss [W] <ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical • during no-load operation maximum 	19 W 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 style="list-style-type: none"> • load step 10 to 90% typical • load step 90 to 10% typical • maximum 	5 ms 5 ms 5 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection <ul style="list-style-type: none"> • typical 	Shutdown and periodic restart attempts 15 A
overcurrent overload capability <ul style="list-style-type: none"> • in normal operation 	overload capability 150 % I _{out} rated up to 5 s/min
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 <ul style="list-style-type: none"> • maximum 	3.5 mA
protection class IP	IP20
EMC	
standard <ul style="list-style-type: none"> • for emitted interference • for mains harmonics limitation • for interference immunity 	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> • CE marking • UL approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2 • SEMI F47 	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes Yes Yes No Yes

type of certification	
<ul style="list-style-type: none"> • BIS • CB-certificate 	<p>Yes; R-41188271</p> <p>Yes</p>
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • FM registration 	<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>623.7 kg</p> <p>28 kg</p> <p>594.7 kg</p> <p>0.7 kg</p>
ambient conditions	
ambient temperature	
<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>
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, L3, PE: push-in for 0.5 ... 10 mm²</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>
mechanical data	
width × height × depth of the enclosure	70 × 135 × 155 mm
installation width × mounting height	70 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	1.5 kg
accessories	
electrical accessories	Redundancy module
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

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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

[Manufacturer Declaration](#)



[Declaration of Conformity](#)

[China RoHS](#)



General Product Approval

Maritime application



[Miscellaneous](#)

[BIS CRS](#)



Environment



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11/14/2025 