SIEMENS

Data sheet 6EP3447-7SB00-3AX0



SITOP PSU6200/3AC/48VDC/20A

SITOP PSU6200 48 V/20 A Stabilized power supply Input: 400 - 500 V AC Output: 48 V DC/20 A with diagnostic interface

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP3447-7SB00-3AX0
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	18 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
● at rated input voltage 400 V	1.5 A
● at rated input voltage 500 V	1.2 A
current limitation of inrush current at 25 °C maximum	10 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. 960 W (1152 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	0.1 %
residual ripple	
● maximum	100 mV
● typical	80 mV
voltage peak	

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● maximum	80 mV
● typical	30 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 Vout < 1 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	200 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	960 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	96.5 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	32 W
● during no-load operation maximum	4.5 W
closed-loop control	
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	4 ms
● load step 90 to 10% typical	10 ms
● maximum	10 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
● typical	24 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	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
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
● UKCA marking	Yes
● EAC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes

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● NEC Class 2	No
● SEMI F47	Yes
type of certification	
● BIS	Yes; R-41183539
● CB-certificate	Yes
standards, specifications, approvals hazardous environments	
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	865 kg
● during manufacturing	53.9 kg
● during operation	809.6 kg
● after end of life	0.89 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, L3, PE: push-in for 0.5 ... 10 mm²
● at output	+1, +2, -1, -2, -3: push-in for 0.75 ... 16 mm²
● for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²
mechanical data	
width × height × depth of the enclosure	95 × 135 × 155 mm
installation width × mounting height	95 mm × 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	2.1 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

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● 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	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)

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

Environmental Product Declaration

● global warming potential [CO2 eq] / during manufacturing	53.9 kg
● global warming potential [CO2 eq] / during operation	809.6 kg
● global warming potential [CO2 eq] / after end of life	0.89 kg
● global warming potential [CO2 eq] / total	865 kg

Environment

General Product Approval

Manufacturer Declaration

Declaration of Conformity

General Product Approval

China RoHS

BIS CRS

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Maritime application





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