## SIEMENS

## Data sheet

## 6EP3446-7SB00-3AX0



SITOP PSU6200/3AC/DC48V/10A

SITOP PSU6200 48 V/10 A stabilized power supply input: 400 - 500 V AC output: 48 V DC/10 A with diagnostic interface

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
input voltage	
• at DC	450 600 V
operating condition of the mains buffering	at Vin = 400 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 Vin = 400 V
line frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 400 V</li> </ul>	0.77 A
<ul> <li>at rated input voltage 500 V</li> </ul>	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	
<ul> <li>at output 1 at DC rated value</li> </ul>	48 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.3 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.3 %
residual ripple	
• maximum	40 mV
• typical	10 mV
voltage peak	
• maximum	30 mV
• typical	20 mV

	40 50.1
adjustable output voltage	48 56 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 480 W (576 W up to 45°C)
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 < 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	480 W
short-term overload current	
	15 0
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	15 A
at short-circuit during operation typical	15 A
product feature	
<ul> <li>parallel switching of outputs</li> </ul>	can be set with DIP switch
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	96.2 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	19 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	3 %
resistive load 10/90/10 % typical	5 /6
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	5 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	5 ms
• maximum	5 ms
Protection and monitoring	0 110
	< 00 \/
design of the overvoltage protection	< 60 V
• typical	15 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	Vee
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
certificate of suitability	No
certificate of suitability <ul> <li>IECEx</li> <li>NEC Class 2</li> </ul>	No
certificate of suitability <ul> <li>IECEx</li> </ul>	No No

type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
• C-Tick	No
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS; in process: DNV
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
• DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental 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
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	push-in terminals
● at input	L1, L2, L3, PE: push-in for 0.5 10 mm <sup>2</sup>
<ul> <li>at output</li> </ul>	+1, +2, -1, -2, -3: push-in for 0.5 6 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm <sup>2</sup>
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	155 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
net weight	1.5 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Redundancy module
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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