SIEMENS

Data sheet

Immunt

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

type of the power supply network 3-phase AC or DC supply voltage at AC 400 V • minimum rated value 500 V • minimum rated value 500 V • initial value 323 V • full-scale value 576 V input voltage 450 600 V • 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 at Vin = 400 V • 1 rated value 50 Hz • 1 rated value 60 Hz • 1 rated value 60 Hz in frequency 47 63 Hz input current 74 63 Hz input voltage 500 V 0.62 A output to voltage 500 V 0.62 A output voltage 600 V 362 A • in the feeder Controlled, isolated DC voltage • in the feeder Anarceteristic C or circuit breaker from 4 A characteristic C to 16 A output voltage at DC rated value	Input	
• minimum rated value400 V• maximum rated value500 V• initial value500 V• initial value323 V• full-scale value576 Vinput voltage450 600 V• at DC450 600 Voperating condition of the mains bufferingat Vin = 400 Vbuffering time for rated value of the output current in the event of power failure minimum25 msoperating condition of the mains bufferingat Vin = 400 Vline frequency60 Hz• 1 rated value60 Hz• 1 rated value60 Hz• 1 rated input voltage 400 V0.77 A• at rated input voltage 500 V0.62 A• at rated input voltage 500 V0.62 A• in the feederthree-poled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker from 4 A characteristic C to 16 A characte	type of the power supply network	3-phase AC or DC
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• at rated input voltage 500 V0.62 Acurrent limitation of inrush current at 25 °C maximum17 Afuse protection type • in the feederthree-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)OutputControlled, isolated DC voltagevoltage curve at outputControlled, isolated DC voltagenumber of outputs1output voltage at DC rated value48 Voutput voltage3%relative control precision of the output voltage3 %on slow fluctuation of input voltage0.3 %• on slow fluctuation of ohm loading0.3 %residual ripple40 mV• typical40 mV• typical10 mV	input current	
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output voltage 48 V • at output 1 at DC rated value 48 V relative overall tolerance of the voltage 3 % relative control precision of the output voltage 0.3 % • on slow fluctuation of input voltage 0.3 % residual ripple 40 mV • typical 10 mV	number of outputs	1
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relative overall tolerance of the voltage 3 % relative control precision of the output voltage 0.3 % • on slow fluctuation of input voltage 0.3 % • on slow fluctuation of ohm loading 0.3 % residual ripple 40 mV • typical 10 mV	output voltage	
relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading • on slow fluctuation of ohm loading residual ripple • maximum • typical 10 mV voltage peak	 at output 1 at DC rated value 	48 V
• on slow fluctuation of input voltage 0.3 % • on slow fluctuation of ohm loading 0.3 % residual ripple 40 mV • typical 10 mV voltage peak	relative overall tolerance of the voltage	3 %
• on slow fluctuation of ohm loading 0.3 % residual ripple - • maximum 40 mV • typical 10 mV voltage peak -	relative control precision of the output voltage	
residual ripple • maximum • typical voltage peak	 on slow fluctuation of input voltage 	0.3 %
• maximum 40 mV • typical 10 mV voltage peak	on slow fluctuation of ohm loading	0.3 %
• typical 10 mV	residual ripple	
voltage peak	• maximum	40 mV
	• typical	10 mV
• maximum 30 mV	voltage peak	
	• maximum	30 mV



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• typical	20 mV
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	
 on short-circuiting during the start-up typical 	15 A
 at short-circuit during operation typical 	15 A
product feature	
 bridging of equipment 	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	96.2 %
power loss [W]	
 at rated output voltage for rated value of the output 	19 W
current typical	
 during no-load operation maximum 	3 W
Closed-loop control	
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	
setting time	
load step 10 to 90% typical	5 ms
 load step 90 to 10% typical 	5 ms
• maximum	5 ms
Protection and monitoring	
design of the overvoltage protection	< 60 V
response value current limitation 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	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
CSA approval	cCSAus (CSA C22.2 No. 62368-1, UL 62368-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No



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 FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	-
EAC approval	Yes
• C-Tick	No
 Regulatory Compliance Mark (RCM) 	No
certificate of suitability shipbuilding approval	– No
shipbuilding approval	in process: DNV GL, ABS
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• DNV GL	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	LN01000-0-2
ambient temperature	
	-30 +70 °C; with natural convection a monotonically increasing start-
 during operation 	up from -25 °C, safe start-up from -40 °C
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category acc. to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	Push-in terminals
at input	L1, L2, L3, PE: PushIn for 0.5 10 mm ²
at output	+1, +2, -1, -2, -3: PushIn for 0.5 6 mm ²
 for auxiliary contacts 	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm ²
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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