## **SIEMENS**

## **Data sheet**



## SITOP PSU8200/3AC/48VDC/10A

SITOP PSU8200 48 V/10 A stabilized power supply input: 400-500 V 3 AC output: 48 V DC/10 A \*Ex approval no longer available\*

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
<ul> <li>maximum rated value</li> </ul>	500 V
• initial value	320 V
• full-scale value	575 V
design of input wide range input	Yes
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	15 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>	1.2 A
at rated input voltage 500 V	1 A
current limitation of inrush current at 25 °C maximum	16 A
I2t value maximum	0.8 A²-s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	48 V
output voltage	
at output 1 at DC rated value	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>	0.1 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	
maximum	100 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	42 56 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 480 W
display version for normal operation	Green LED for 48 V OK

Inchesive of the output voltage when switching on exponse of eldy maximum voltage increase time of the output voltage   500 ms	type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK
response delay maximum  output current  indicated any and a section of the output voltage  in maximum  output current  indicated any and a section of the output voltage  in maximum  output current  indicated any and a section of the output voltage  in makimum  output current  indicated any and any and any and any and any and any and any any and any any and any	· · · · · · · · · · · · · · · · · · ·	
voltage incease time of the output voltage  maximum  output current  rated value  r	· · · · · · · · · · · · · · · · · · ·	
output current		2.03
output current  * rated value  * rated varies  * rated value  * rated output value of the output value  * rated output value value value  * rated value  * rated value  * rated value  * rated output value  * rated output value  * rated value  * rated output value  * rated output value  * rated value  * rated value  * rated output value  * rated output value  * rated value  * rated value  * rated value  * rated output value  * rated value  * rated value  * rated output value  * rated value  * r		500 ms
Interest value Intere		300 ms
a teled range  applied active power typical  at a short-term overfoad current  a ta short-circuit during operation typical  at short-circuit during operation (papelality) for excess current a ta short-circuit during operation a short-circuit during operation b on short-circuiting during the start-up typical  a b ording of equipment b ordinary of parallel-switched equipment resources for increasing the power  a b ordinary of parallel-switched equipment resources for increasing the power  a control protein of the output voltage with rapid efficiency in persent  a control protein of the output voltage with rapid function of the output voltage at load step of resister load 500 to0% typical  a load step 10 to 50% typical  b load step 10 to 50% typical  c load step 10 to 90% typical  c load step 10	·	10 A
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duration of overloading capability for excess current		30 A
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product feature  • bridging of equipment  • bridging of equipment resources for increasing the power    Fifticiency   Fifticienc		11 Λ
bridging of equipment     mumber of parallet-switched equipment resources for increasing to power      Efficiency      Efficiency in percent     power loss [W]		IIA
rumber of parallel-switched equipment resources for increasing be power  Efficiency  efficiency in percent  at rated output voltage for rated value of the output current typical  relative control precision of the output voltage with rapid fluctuation of the input voltage by +-1 5% typical  relative control precision of the output voltage with rapid fluctuation of the input voltage by +-1 5% typical  relative control precision of the output voltage load step of resistive load 501/0050 % typical  at load step 50 to 100% typical  load step 50 to 100% typical  load step 10 to 50% typical  load step 10 to 50% typical  load step 90 to 10% typical  load to 11 A  property of the output short-circuit proof  Yes  design of short-circuit protection  advincement RMS value  lypical  lypical  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown" step you and to safety extra low output voltage Vout according to EN 60950-1  operating resource protection class  Class I  leakage current  maximum  lypical  protection class IP  load you for "overload", LED red for "latching shutdown" step you according to EN 60950-1  protection class IP  extricated of suitability  CED relativing  Yes  CULUS-Listed (UL 508, CSA C22.2 No. 107.1), File E197256, CSA us  (CSA 6222.8 No. 60950-1, UL 60950-1)  Yes; CULUS-Lis	•	Voc. quitabable abaracteriatie
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efficiency in percent power loss [W]	·	
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relative control precision of the output voltage at load step of resistive load 10/90/10 % typical  • load step 10 to 90% typical • load step 90 to 10% typical • load step 90 to 10% typical • maximum  7 Protection and monitoring  design of the overvoltage protection • typical  property of the output short-circuit proof  design of short-circuit protection • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  ED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  • maximum • maximum • maximum • typical  overcurrent overload capability • Class I  leakage current • maximum • typical  overload capability • Ce marking • UL approval  • CSA approval  2 %  2 %  2 %  2 %  2 %  2 %  2 %  2	<ul><li>load step 50 to 100% typical</li></ul>	0.2 ms
resistive load 10/90/10 % typical  setting time  load step 10 to 90% typical  load step 90 to 10% typical  maximum  10 ms  Protection and monitoring  design of the overvoltage protection  typical  property of the output short-circuit proof  design of short-circuit protection  typical  property of the output short-circuit proof  design of short-circuit current RMS value  typical  tovercurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  galvanic isolation  poperating resource protection class  leakage current  maximum  movercurrent  movercurrent characteristic approx. 11 A or latching shutdown  11 A  povercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent characteristic approx. 11 A or latching shutdown  leaking  movercurrent charact	load step 100 to 50% typical	0.2 ms
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load step 90 to 10% typical   0.2 ms   10 ms	setting time	
• maximum 10 ms  Protection and monitoring  design of the overvoltage protection	<ul> <li>load step 10 to 90% typical</li> </ul>	0.2 ms
Protection and monitoring  design of the overvoltage protection • typical  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 11 A or latching shutdown enduring short circuit current RMS value • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  yes  galvanic isolation  parating resource protection class  leakage current • maximum • typical  otypical  otypic	<ul> <li>load step 90 to 10% typical</li> </ul>	0.2 ms
design of the overvoltage protection  • typical  11 A  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 11 A or latching shutdown enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output yes galvanic isolation between input and output operating resource protection class  Class I  leakage current  • maximum • typical  o .9 mA  protection class IP  Approvals  certificate of suitability  • CE marking • UL approval  • CSA approval  CSA c22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	• maximum	10 ms
• typical  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 11 A or latching shutdown  enduring short circuit current RMS value  • typical  11 A  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  yes  galvanic isolation between input and output  operating resource protection class  leakage current  • maximum  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  CSA approval  • CSA sproval  • CSA c22.2 No. 107.1), File E197259; cCSAus	Protection and monitoring	
property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical  overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output yes galvanic resource protection class  leakage current • maximum • typical  overcurrent • maximum • typical  protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval	design of the overvoltage protection	< 60 V
design of short-circuit protection enduring short circuit current RMS value • typical  overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output yes galvanic resource protection class  leakage current • maximum • typical  protection class IP  Approvals  certificate of suitability • CE marking • UL approval • UL approval • CSA approval • CSA approval • CSA approval • CSA approval  Alternatively, constant current characteristic approx. 11 A or latching shutdown  11 A  Alternatively, constant current characteristic approx. 11 A or latching shutdown  11 A  11 A  Alternatively, constant current characteristic approx. 11 A or latching shutdown  11 A  11 A  Alternatively, constant current characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  11 A  Overcurrent characteristic approx. 11 A or latching shutdown  LED yellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  LED vellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  LED vellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  Pagivaria (LED vellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  LED vellow for "overload", LED red for "latching shutdown"  Safety  Safety  Yes  Class I  LED vellow for "overload", LED red for "latching shutdown"  Safety  Safety	• typical	11 A
enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  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  leakage current  • maximum  • typical  output  voltage Vout according to EN 60950-1  Class I  leakage current  output  o	property of the output short-circuit proof	Yes
<ul> <li>typical</li> <li>typical</li> <li>overcurrent overload capability in normal operation</li> <li>display version for overload and short circuit</li> <li>LED yellow for "overload", LED red for "latching shutdown"</li> <li>Safety</li> <li>galvanic isolation between input and output</li> <li>yes</li> <li>galvanic isolation</li> <li>Safety extra low output voltage Vout according to EN 60950-1</li> <li>operating resource protection class</li> <li>class I</li> <li>leakage current</li> <li>maximum</li> <li>typical</li> <li>0.9 mA</li> <li>protection class IP</li> <li>Approvals</li> <li>certificate of suitability</li> <li>CE marking</li> <li>UL approval</li> <li>UL approval</li> <li>CSA c22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>CSA approval</li> </ul>	design of short-circuit protection	Alternatively, constant current characteristic approx. 11 A or latching shutdown
overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output Yes galvanic resource protection class  leakage current  maximum typical protection class IP  Approvals  certificate of suitability  CE marking UL approval  Ves QSA approval  Yes  Yes  Ves  CSA approval  Overload capability 150 % lout rated up to 5 s/min LED red for "latching shutdown"  LED yellow for "overload", LED red for "latching shutdown"  Ves  Safety extra low output voltage Vout according to EN 60950-1  Class I  Page  Outproved  Ves  Ves  Ves  Ves  Ves  CSA C22.2 No. 107.1), File E197259; cCSAus  CSA C22.2 No. 60950-1, UL 60950-1)  Ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	enduring short circuit current RMS value	
display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  Yes galvanic isolation between input and output  Operating resource protection class  leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  OSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1)  • CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	• typical	11 A
galvanic isolation between input and output galvanic isolation Safety extra low output voltage Vout according to EN 60950-1  operating resource protection class  leakage current	overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
galvanic isolation between input and output  galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1  Operating resource protection class  Class I  leakage current  maximum  typical  protection class IP  Approvals  certificate of suitability  CE marking  UL approval  Ves  Ves  Ves  CSA approval  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	display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1  Operating resource protection class  Class I  leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • UL approval  • CSA approval  • CSA approval  • CSA approval  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	Safety	
galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1  Operating resource protection class  Class I  leakage current  • maximum  • typical  • typical  O.9 mA  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • UL approval  • CSA approval  • CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	galvanic isolation between input and output	Yes
operating resource protection class  leakage current	·	Safety extra low output voltage Vout according to EN 60950-1
leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • UL approval  • CSA approval  • CSA approval  • CSA approval  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	· ·	
	<u> </u>	
protection class IP IP20  Approvals  certificate of suitability  • CE marking  • UL approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • CSA approval  • CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	-	3.5 mA
protection class IP IP20  Approvals  certificate of suitability  • CE marking  • UL approval  • UL approval  • CSA approval  • CSA approval  • CSA approval  • CSA approval  P20  Yes  (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	• typical	0.9 mA
certificate of suitability         • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • CSA approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	•	IP20
<ul> <li>CE marking</li> <li>UL approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus</li> </ul>	Approvals	
<ul> <li>UL approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus</li> </ul>	certificate of suitability	
(CSA C22.2 No. 60950-1, UL 60950-1)  ◆ CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	CE marking	Yes
(CSA C22.2 No. 60950-1, UL 60950-1)  ◆ CSA approval  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	UL approval	
(CSA C22.2 No. 60950-1)	CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)

• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
<ul> <li>EAC approval</li> </ul>	Yes
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
French marine classification society (BV)	No
• DNV GL	Yes
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	
ambient temperature	
during operation	-25 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Cilinate diago di G, d do/nile dell'adribation
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely
·	stranded
• at output	+, -: 2 screw terminals each for 0.2 4 mm <sup>2</sup>
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	1.2 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
	otherwise specified)



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