## **SIEMENS**

## **Data sheet**



## SITOP PSU6200/1AC/DC24V/5A/EX

SITOP PSU6200 Ex 24 V/5 A stabilized power supply input: 120/230 V AC output: 24 V DC/5 A with painted printed circuit boards

Figure similar

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	120 V
maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 240 V
input voltage	
• at DC	99 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at Vin = 240 V
buffering time for rated value of the output current in the event of power failure minimum	80 ms
operating condition of the mains buffering	at Vin = 240 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 120 V</li> </ul>	1.9 A
at rated input voltage 240 V	1.1 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	3.15 A
• in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/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	24 V
output voltage	
at output 1 at DC rated value	24 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	30 mV

• typical • typical • typical • typical • typical • typical  • typical • ty	- humiani	20\
* maximum	• typical	20 mV
• typical adjustable output voltage adjustable   24 28 V   25   25   25   25   25   25   25		400 14
adjustable output voltage product function ordinar logarity product function ordinar voltage adjustable yes of output voltage setting display version for normal operation Green LED for 24 V OK yes of signal a toutput behavior of the output voltage when switching on Overshoot of Voud < 2 % Page of signal a toutput behavior of the output voltage when switching on Overshoot of Voud < 2 % Voltage increase time of the output voltage  • Yyocal  100 ms  output current • rated value • also did range  • Joseph output did go the province of the output voltage  • Increase output voltage • Joseph output did go the province of the output voltage  • Joseph output output • also the function did go the province output output • on short-circularing during the start-up typical • also ther-circularing during the start-up typical • output cleature • Increase of the output voltage of rated value of the output current typical  • Increase of the output voltage of rated value of the output current typical  • Increase of the output voltage at load step of relative to all output output output ordinary control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage at load step of relative control processor of the output voltage output voltage volta according to EN 80950-1  • Logical step output short-circuit proof  • Logical step output short-circuit proof  • Logical control of the output short-circuit proof  • Logical control of the output short-circuit proof  • Logical control of the output short-circuit proof  •		
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display version for normal operation Upbe of signed at output Dehavior of the output voltage when switching on Overshoot of Vout < 2 % Overshoot of Vo	product function output voltage adjustable	Yes
byte of signal at output    Section   Section	type of output voltage setting	via potentiometer; max. 120 W (144 W up to 45°C)
behavior of the output votage when switching on response delay maximum 0.5 a   votage increase time of the output votage   • typical 100 ms   output current   • rated value	display version for normal operation	Green LED for 24 V OK
response delay maximum  voltage increase time of the output voltage  • typical  output current  • rated value  • rated value  • rated value  • rated range  • product restrict output growing the start-up typical  short-term overload current  • on aftort-circuiting during the start-up typical  • on aftort-circuiting during the start-up typical  • on aftort-circuiting upperation typical  • on aftort-circuit during operation typical  • bridging of equipment  No  Efficiency  efficiency  efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum  2 tw  closed-top poentoriol  relative control precision of the output voltage at load step of resistive load 1050/10 % typical  • load step 10 to 80% typical	type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.
voltage increase time of the output voltage  • typical  output current  • rated value  • rated range  0 SA; 6 A up to +45°C; +60 +70 °C; Derating 3%/K  supplied active power typical  short-crediting during the start-up typical  • at a thort-cricuit guring operation typical  • on short-cricuiting operation typical  • on short-cricuiting operation typical  • on short-cricuiting operation typical  • bridging of equipment  • bridging of e	behavior of the output voltage when switching on	Overshoot of Vout < 2 %
upup current	response delay maximum	0.5 s
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overcurrent overload capability in normal operation  Safety  galvanic isolation between input and output Yes galvanic isolation  operating resource protection class  leakage current  • maximum protection class IP  Approvals  certificate of suitability  • CE marking • UL approval • CSA approval • NEC Class 2 • UKCA marking • Regulatory Compliance Mark (RCM) • BIS • CB-certificate • CB-certificat	property of the output short-circuit proof	Yes
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galvanic isolation between input and output galvanic isolation Safety extra low output voltage Vout according to EN 60950-1  Class I  leakage current	overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
galvanic isolation operating resource protection class  leakage current	Safety	
operating resource protection class  leakage current	galvanic isolation between input and output	Yes
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	operating resource protection class	Class I
protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • NEC Class 2  • UKCA marking  • Regulatory Compliance Mark (RCM)  type of certification  • BIS  • CB-certificate  certificate of suitability  IP20  Yes  Yes  Yes  Yes  Yes  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259  Yes; CSA C22.2 No. 62368-1  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		3.5 mA
certificate of suitability  CE marking  UL approval  CSA approval  CSA approval  NEC Class 2  UKCA marking  Regulatory Compliance Mark (RCM)  type of certification  BIS  CB-certificate  CE-certificate  Certificate of suitability  Yes  Yes  Yes  Yes  Yes  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		IP20
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<ul> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>NEC Class 2</li> <li>UKCA marking</li> <li>Regulatory Compliance Mark (RCM)</li> <li>type of certification</li> <li>BIS</li> <li>CB-certificate</li> <li>CB-certificate of suitability</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>		
<ul> <li>UL approval</li> <li>CSA approval</li> <li>NEC Class 2</li> <li>UKCA marking</li> <li>Regulatory Compliance Mark (RCM)</li> <li>Yes</li> <li>type of certification</li> <li>BIS</li> <li>CB-certificate</li> <li>CB-certificate of suitability</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259</li> <li>Yes; CSA C22.2 No. 62368-1</li> <li>No</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>CB-certificate of suitability</li> </ul>	•	Yes
CSA approval     NEC Class 2     No     UKCA marking     Regulatory Compliance Mark (RCM)  type of certification     BIS     CB-certificate  CB-certificate  Yes; CSA C22.2 No. 62368-1  No Yes  Yes  Yes  Yes  Yes  Yes  Yes; R-41188271  Yes  Celtificate of suitability		
NEC Class 2     UKCA marking     Regulatory Compliance Mark (RCM)  type of certification     BIS     CB-certificate  Certificate of suitability  No Yes  Yes  Yes  Yes  Yes; R-41188271  Yes  Yes		
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CB-certificate  Certificate of suitability  Yes		Vac. D 44400074
certificate of suitability		
		res
• IECEX Yes; IECEX Ex ec IIC T3 Gc	•	V 1505 5 110 70 0
	• IECEx	Yes; IECEx Ex ec IIC T3 Gc



• ATEX	Yes; ATEX (EX) II 3G Ex ec IIC T3 Gc
ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	Yes
FM registration	No
certificate of suitability shipbuilding approval	Yes
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
Lloyds Register of Shipping (LRS)	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	-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
during storage	-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/N/-, PE: push-in for 0.5 4 mm² single-core/finely stranded
• at output	+1, +2, -1, -2, -3: push-in for 0.5 2.5 mm <sup>2</sup>
for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm <sup>2</sup>
width of the enclosure	35 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
net weight	0.7 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	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



