6EP3336-7SB00-3AX0

Data sheet



SITOP PSU6200/1AC/24VDC/20A

SITOP PSU6200 24 V/20 A stabilized power supply input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	120 V
 maximum rated value 	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	110 240 V
input voltage	
• at DC	85 275 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 = 230 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 = 230 V
line frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	4.3 A
 at rated input voltage 230 V 	2.3 A
current limitation of inrush current at 25 °C maximum	12 A
fuse protection type	10 A
• in the feeder	Circuit breaker from 6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1HA10 (setting 8A) or 3RV2711-1HD10 (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	
 on slow fluctuation of input voltage 	0.2 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	

• maximum	80 mV
• typical	50 mV
voltage peak	
maximum	100 mV
• typical	60 mV
adjustable output voltage	24 28 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 24 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 approx. 3 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 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	480 W
short-term overload current	
on short-circuiting during the start-up typical	30 A
at short-circuit during operation typical	30 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	-
Efficiency	
efficiency in percent	95.5 %
power loss [W]	
at rated output voltage for rated value of the output current typical	25 W
during no-load operation maximum	2.6 W
Closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
load step 10 to 90% typical	0.5 ms
• load step 90 to 10% typical	0.5 ms
• maximum	1 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
response value current limitation typical	30 A
property of the output short-circuit proof	Yes
design of short-circuit protection	
	Shutdown and periodic restart attempts overload capability 150 % lout rated up to 5 s/min
overcurrent overload capability in normal operation Safety	Overload capability 150 % lout rated up to 5 s/min
galvanic isolation between input and output	Yes
galvanic isolation	165
	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	
operating resource protection class leakage current	Safety extra low output voltage Vout according to EN 60950-1
	Safety extra low output voltage Vout according to EN 60950-1
leakage current	Safety extra low output voltage Vout according to EN 60950-1 Class I
leakage current • maximum	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
leakage current • maximum protection class IP	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
leakage current • maximum protection class IP Approvals	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
leakage current • maximum protection class IP Approvals certificate of suitability	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20
leakage current • maximum protection class IP Approvals certificate of suitability • CE marking	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes 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;

certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
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	Yes
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	
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
Mechanics	
type of electrical connection	Push-in terminals
• at input	L1/+, L2/N/-, PE:PushIn for 0.5 4 mm² single-core/finely stranded
• 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	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)

