



SITOP PSU6200/1AC/24VDC/2.5A

SITOP PSU6200 24 V/2.5 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/2.5 A

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	110 ... 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 $V_{in} = 230\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	150 ms
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
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	1.1 A
• at rated input voltage 230 V	0.6 A
current limitation of inrush current at 25 °C maximum	32 A
fuse protection type	3.15 A
• in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B 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	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	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	

<ul style="list-style-type: none"> • maximum 	30 mV
<ul style="list-style-type: none"> • typical 	20 mV
voltage peak	
<ul style="list-style-type: none"> • maximum 	30 mV
<ul style="list-style-type: none"> • typical 	20 mV
adjustable output voltage	22.2 ... 26.4 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 60 W
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	
<ul style="list-style-type: none"> • typical 	100 ms
output current	
<ul style="list-style-type: none"> • rated value 	2.5 A
<ul style="list-style-type: none"> • rated range 	0 ... 2.5 A; +60 ... +70 °C: Derating 2.5%/K
supplied active power typical	60 W
short-term overload current	
<ul style="list-style-type: none"> • on short-circuiting during the start-up typical 	2.5 A
<ul style="list-style-type: none"> • at short-circuit during operation typical 	2.5 A
product feature	
<ul style="list-style-type: none"> • bridging of equipment 	No
Efficiency	
efficiency in percent	89 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	7 W
<ul style="list-style-type: none"> • during no-load operation maximum 	0.8 W
Closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
<ul style="list-style-type: none"> • load step 10 to 90% typical 	1 ms
<ul style="list-style-type: none"> • load step 90 to 10% typical 	1 ms
<ul style="list-style-type: none"> • maximum 	2 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
response value current limitation typical	3.1 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
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	
<ul style="list-style-type: none"> • maximum 	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • cCSAus, Class 1, Division 2 	No
<ul style="list-style-type: none"> • ATEX 	No
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
<ul style="list-style-type: none"> • NEC Class 2 	Yes
<ul style="list-style-type: none"> • 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	-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	
type of electrical connection	Push-in terminals
• at input	L1/+, L2/N/-, PE: PushIn for 0.5 ... 2.5 mm ² single-core/finely stranded
• at output	+1, -1, -2: PushIn for 0.5 ... 2.5 mm ²
• for auxiliary contacts	-
width of the enclosure	40 mm
height of the enclosure	100 mm
depth of the enclosure	88 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.25 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)

