



SITOP PSU6200/1AC/24VDC/3.7A/NECCCLASS2

SITOP PSU6200 3.7 A NEC class II Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/3.7 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	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 $V_{in} = 240\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	90 ms
operating condition of the mains buffering	at $V_{in} = 240\text{ V}$
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	1.5 A
• at rated input voltage 240 V	0.9 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	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	

<ul style="list-style-type: none"> • maximum • typical 	100 mV
adjustable output voltage	60 mV
product function output voltage adjustable	24 ... 28 V
type of output voltage setting	Yes
display version for normal operation	via potentiometer; max. 89 W (106 W up to 45°C)
type of signal at output	Green LED for 24 V OK
behavior of the output voltage when switching on	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.
response delay maximum	Overshoot of Vout < 2 %
voltage increase time of the output voltage	0.5 s
<ul style="list-style-type: none"> • typical 	100 ms
output current	
<ul style="list-style-type: none"> • rated value • rated range 	3.7 A
supplied active power typical	0 ... 3.7 A; +60 ... +70 °C: Derating 1.5%/K
short-term overload current	89 W
<ul style="list-style-type: none"> • on short-circuiting during the start-up typical • at short-circuit during operation typical 	3.7 A
product feature	3.7 A
<ul style="list-style-type: none"> • bridging of equipment 	No

Efficiency

efficiency in percent	89.3 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical • during no-load operation maximum 	11 W
	2.2 W

Closed-loop control

relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
<ul style="list-style-type: none"> • load step 10 to 90% typical • load step 90 to 10% typical • maximum 	2 ms
	2 ms
	3 ms

Protection and monitoring

design of the overvoltage protection	< 32 V
<ul style="list-style-type: none"> • typical 	3.7 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	Yes
<ul style="list-style-type: none"> • 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)
<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 • ATEX 	No
certificate of suitability	No
<ul style="list-style-type: none"> • IECEx • NEC Class 2 • ULhazloc approval • FM registration 	Yes; acc. to UL 60950-1/UL 1310, File E151273
type of certification CB-certificate	No
certificate of suitability	Yes
<ul style="list-style-type: none"> • EAC approval • C-Tick 	Yes
	No

<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS; in process: DNV
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> • French marine classification society (BV) 	No
<ul style="list-style-type: none"> • DNV GL 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No

EMC

standard	
<ul style="list-style-type: none"> • for emitted interference 	EN 55022 Class B
<ul style="list-style-type: none"> • for mains harmonics limitation 	EN 61000-3-2
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2

environmental conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation 	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • at input 	L1/+, L2/N/-, PE:PushIn for 0.5 ... 4 mm ² single-core/finely stranded
<ul style="list-style-type: none"> • at output 	+1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm ²
<ul style="list-style-type: none"> • for auxiliary contacts 	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ²
width of the enclosure	35 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
<ul style="list-style-type: none"> • top 	45 mm
<ul style="list-style-type: none"> • bottom 	45 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • 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)

