



Figure similar

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

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	80 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	1.9 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	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	30 mV
• typical	20 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. 120 W (144 W up to 45°C); max. 120 W (144 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.
behavior of the output voltage when switching on	Overshoot of $V_{out} < 2\%$
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 ms
output current	
• rated value	5 A
• rated range	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	120 W
short-term overload current	
• on short-circuiting during the start-up typical	6 A
• at short-circuit during operation typical	6 A
product feature	
• bridging of equipment	No

Efficiency

efficiency in percent	90.2 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	13 W
• during no-load operation maximum	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	
• load step 10 to 90% typical	1 ms
• load step 90 to 10% typical	1 ms
• maximum	2 ms

Protection and monitoring

design of the overvoltage protection	< 32 V
• typical	6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % I _{out} rated up to 5 s/min

Safety

galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage V_{out} according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
protection class IP	IP20

Approvals

certificate of suitability	Yes
• CE marking	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• 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	No
• cCSAus, Class 1, Division 2	Yes; ATEX (EX) II 3G Ex ec IIC T3 Gc
• ATEX	
certificate of suitability	
• relating to ATEX	IECEx Ex ec IIC T3 Gc; ATEX (EX) II 3G Ex ec IIC T3 Gc
• IECEx	Yes; IECEx Ex ec IIC T3 Gc
• NEC Class 2	No
• ULhazloc approval	No
• FM registration	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) French marine classification society (BV) DNV GL Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) 	<ul style="list-style-type: none"> Yes No No No No
EMC	
standard	
<ul style="list-style-type: none"> for emitted interference for mains harmonics limitation for interference immunity 	<ul style="list-style-type: none"> EN 55022 Class B EN 61000-3-2 EN 61000-6-2
environmental conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during transport during storage 	<ul style="list-style-type: none"> -30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C -40 ... +85 °C -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 at output for auxiliary contacts 	<ul style="list-style-type: none"> L1/+, L2/N/-, PE: PushIn for 0.5 ... 4 mm² single-core/finely stranded +1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm² 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²
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 bottom left right 	<ul style="list-style-type: none"> 45 mm 45 mm 0 mm 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)

