



Figure similar

SITOP PSU6200/1AC/DC24V/20A/EX

SITOP PSU6200 Ex 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A with diagnostic interface 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	110 ... 240 V
input voltage at DC	85 ... 275 V
wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
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 = 240 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	4.3 A
• at rated input voltage 240 V	2.3 A
current limitation of inrush current at 25 °C maximum	12 A
fuse protection type	10 A
fuse protection type 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
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 ... 28 V; max. 480 W (576 W up to 45°C)
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 • typical	100 mV 60 mV
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 • rated range	20 A 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 • at short-circuit during operation typical	30 A 30 A
parallel switching of outputs	can be set with DIP switch
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	95.5 %
power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum	25 W 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 • load step 90 to 10% typical • maximum	0.5 ms 0.5 ms 1 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection • typical	Shutdown and periodic restart attempts 30 A
overcurrent overload capability • in normal operation	overload capability 150 % Iout rated up to 5 s/min
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 • maximum	3.5 mA
protection class IP	IP20
EMC	
standard • for emitted interference • for mains harmonics limitation • for interference immunity	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; CSA C22.2 No. 62368-1 Yes Yes Yes No

SEMI F47	Yes
type of certification	
BIS	Yes; R-41188271
CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
IECEX	Yes; IECEX Ex ec nC IIC T3 Gc
ATEX	Yes; ATEX (EX) II 3G Ex ec nA nC IIC T4 Gc
ULhazloc approval	Yes
cCSAus, Class 1, Division 2	Yes
UKEX	Yes
CCC for hazardous zone according to GB standard	Yes
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No; in preparation
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
total	811.6 kg
during manufacturing	28 kg
during operation	782.6 kg
after end of life	0.7 kg
ambient 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
connection method	
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 ... 6 mm²
for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²
mechanical data	
width × height × depth of the enclosure	70 × 135 × 155 mm
installation width × mounting height	70 mm × 225 mm
required spacing	
top	45 mm
bottom	45 mm
left	0 mm
right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
standard rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	1.5 kg
accessories	
electrical accessories	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links	
internet link	
to website: Industry Mall	https://mall.industry.siemens.com
to website: Industrial communication	https://siemens.com/industrial-communication

- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://siemens.com/cax>
<https://support.industry.siemens.com>

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)



General Product Approval



[BIS CRS](#)



For use in hazardous locations

Marine / Shipping

Environment

[CCC-Ex](#)



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