



Figure similar

SITOP PSU6200/1AC/DC24V/10A/EX

SITOP PSU6200 Ex 24 V/10 A stabilized power supply input: 120 - 240 V AC
output: 24 V DC/10 A with diagnostic interface with coated 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	45 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	2.2 A
• at rated input voltage 240 V	1.2 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
fuse protection type in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 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
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 ... 28 V; max. 240 W (288 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	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	

• maximum • typical	30 mV 20 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 < 2 %
response delay maximum	0.5 s
voltage increase time of the output voltage • typical	200 ms
output current • rated value • rated range	10 A 0 ... 10 A; 12 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current • on short-circuiting during the start-up typical • at short-circuit during operation typical	12 A 12 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	92.8 %
power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum	18 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 • 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
property of the output short-circuit proof	Yes
design of short-circuit protection • typical	Shutdown and periodic restart attempts 12 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	ES1 output voltage Vout according to EN 62368-1
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

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 nC IIC T3 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)	Yes
• Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	581.2 kg
• during manufacturing	16.8 kg
• during operation	563.8 kg
• after end of life	0.42 kg
ambient conditions	
ambient temperature	
• during operation	-30 ... +70; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
• during transport	-40 ... +85
• during storage	-40 ... +85
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 ... 2.5 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	45 × 135 × 125 mm
installation width × mounting height	45 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
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	No
housing can be lined up	Yes
net weight	0.9 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 web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop

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

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

identification link

Yes; acc. to IEC 61406-1:2022

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](#)



[BIS CRS](#)

For use in hazardous locations

Marine / Shipping



[CCC-Ex](#)



Environment



