



SITOP PSU100D/1AC/24VDC/6.25A

PSU100D 24 V/6.25 A stabilized power supply input: 100-120 V/200-240 V AC
output: 24 V DC/6.25 A

input	
type of the power supply network	1-phase AC
supply voltage 1 at AC	100 ... 120 V
supply voltage 2 at AC	200 ... 240 V
input voltage 1 at AC	90 ... 132 V
input voltage 2 at AC	180 ... 264 V
wide range input	Yes
overvoltage overload capability	1.25 × Vin rated, 500 ms
buffering time for rated value of the output current in the event of power failure minimum	30 ms
operating condition of the mains buffering	at Vin = 115/230 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 100 V	3 A
• at rated input voltage 240 V	1.6 A
current limitation of inrush current at 25 °C maximum	60 A
I ² t value maximum	1.5 A ² ·s
fuse protection type	T4AL250V (internal)
fuse protection type in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America)
output	
voltage curve at output	Controlled, isolated DC voltage
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	21.6 ... 26.4 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.5 %
• on slow fluctuation of ohm loading	0.5 %
voltage peak	
• maximum	200 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 10 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• maximum	30 ms
output current	

• rated value • rated range	6.25 A 0 ... 6.25 A; +50 ... +70 °C: Derating 2.0%/K
supplied active power typical	150 W
bridging of equipment	No
efficiency	
efficiency in percent	89 %
power loss [W] • at rated output voltage for rated value of the output current typical	18 W
closed-loop control	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	10 %
setting time • load step 50 to 100% typical • load step 100 to 50% typical	4 ms 4 ms
protection and monitoring	
design of the overvoltage protection	< 33.6 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	6.88 ... 10.94 A
enduring short circuit current RMS value • typical	9 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 62368-1
operating resource protection class	Class I
leakage current • maximum	0.5 mA
EMC	
standard • for emitted interference • for mains harmonics limitation • for interference immunity	EN 55032 Class B IEC 61000-3-2 Class A EN 55035
standards, specifications, approvals	
certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No No
type of certification • BIS • CB-certificate	Yes; R-611003204 Yes
MTBF at 25 °C	700 000 h; according to SR-332, 100% full load (24 V, 6.25 A), input voltage: 115 V / 230 V AC
standards, specifications, approvals hazardous environments	
certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration	No No No No No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV)	No No No

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	Environment

[Manufacturer Declaration](#)



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