SIEMENS

Data sheet

6EP3343-0SA00-0AY0



SITOP PSU3600 FLEXI/1AC/3-52VDC/10A/120W

SITOP PSU3600 flexi Stabilized power supply Input: 120-230 V AC Output: 3-52 V DC/10 A, 120 W

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
 minimum rated value 	120 V
 maximum rated value 	230 V
initial value	85 V; Derating at < 110 V AC/DC: output power max. 100 W
• full-scale value	264 V
supply voltage	
• at DC	110 220 V
input voltage	
• at DC	88 250 V
design of input wide range input	Yes
operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
buffering time for rated value of the output current in the event of power failure minimum	80 ms
operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
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 	2.6 A
 at rated input voltage 230 V 	1.3 A
 at rated input voltage 110 V 	1.3 A
 at rated input voltage 220 V 	0.7 A
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	1 A ² ·s
fuse protection type	T 3.15 A (not accessible)
• in the feeder	Recommended miniature circuit breaker: 6-10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
formula for output voltage	3-52 V DC

formula for output voltage 3-52 V DC output voltage • at output 1 at DC rated value 24 V relative overall tolerance of the voltage 1 % relative control precision of the output voltage • on slow fluctuation of input voltage 0.1 % • on slow fluctuation of ohm loading 1 % voltage compensation per sense line 0.5 V residual ripple • maximum 50 mV

voltage peak	400 1/
• maximum	100 mV
adjustable output voltage	0 52 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer (setting range 3 to 52 V) or analog control voltage signal 0 to 2.5 V (setting range 0 to 52 V)
display version for normal operation	Two-color LED: green for 24 V o.k., red for overload
type of signal at output	DC OK via relay contact, current monitor signal (0 to 2.5 V correspond
typo or orginal at output	to 0 to 10 A)
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	20 ms
output current	
rated value	10 A
rated range	0 10 A; Output power max. 120 W
supplied active power typical	120 W
constant overload current	
 on short-circuiting during the start-up typical 	12 A
 at short-circuit during operation typical 	12 A
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	00.07
efficiency in percent	88 %
power loss [W]	16 W
 at rated output voltage for rated value of the output current typical 	10 VV
during no-load operation maximum	3 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical	0.5 /0
relative control precision of the output voltage load step of	5 %
resistive load 50/100/50 % typical	
setting time	
maximum	0.2 ms
Protection and monitoring	
design of the overvoltage protection	≤ 60 V according to EN 60950-1
response value current limitation	2 10 A
design of the current limitation	Can be set with potentiometer or analog control voltage signal 0.5 2.5
	V
property of the output short-circuit proof	Yes
property of the output short-circuit proof design of short-circuit protection	Electronic current limiting (2 10 A) in the range 3 12 V or power
design of short-circuit protection	
design of short-circuit protection enduring short circuit current RMS value	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V
design of short-circuit protection enduring short circuit current RMS value • maximum	Electronic current limiting (2 10 A) in the range 3 12 V or power
design of short-circuit protection enduring short circuit current RMS value • maximum Safety	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No; -
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • CCSAus, Class 1, Division 2	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No; - No
design of short-circuit protection enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX	Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No; -
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 ULhazloc approval 	No
 FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
• C-Tick	Yes
 Regulatory Compliance Mark (RCM) 	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
• DNV GL	No
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	FNI FF000 Class D
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; Derating > 60°C: 2%/°K
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely
·	stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm² single-core/finely
	stranded
for auxiliary contacts	Alarm signals, control inputs: screw-type terminals for 0.14 1.5 mm ² single-core/finely stranded
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	135 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
net weight	0.55 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 200 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
outer information	Opcomodions at rated input voltage and ambient temperature T25 C

