



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

### General information

Technical Product Detail Page

<https://l.siemens.com/1P6EP3343-0SA00-0AY0>

### 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
• full-scale value	264 V
supply voltage at AC	Derating at < 110 V AC/DC: output power max. 100 W
supply voltage at DC	110 ... 220 V
input voltage at DC	88 ... 250 V
wide range input	Yes
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	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 110 V	1.3 A
• at rated input voltage 120 V	2.6 A
• at rated input voltage 220 V	0.7 A
• at rated input voltage 230 V	1.3 A
current limitation of inrush current at 25 °C maximum	35 A
I <sup>2</sup> t value maximum	1 A <sup>2</sup> ·s
fuse protection type	T 3.15 A (not accessible)
fuse protection type 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
output voltage	
• at output 1 at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer (adjustment range 3 ... 52 V) or analog control voltage signal 0 to 2.5 V (adjustment range 0 ... 52 V)
adjustable output voltage	0 ... 52 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %

<ul style="list-style-type: none"> <li>on slow fluctuation of ohm loading</li> </ul>	1 %
voltage compensation per sense line	0.5 V
residual ripple	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	50 mV
voltage peak	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	100 mV
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 ... 2.5 V correspond to 0 ... 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	
<ul style="list-style-type: none"> <li>typical</li> </ul>	20 ms
output current	
<ul style="list-style-type: none"> <li>rated value</li> <li>rated range</li> </ul>	10 A 0 ... 10 A; Output power max. 120 W
supplied active power typical	120 W
constant overload current	
<ul style="list-style-type: none"> <li>on short-circuiting during the start-up typical</li> <li>at short-circuit during operation typical</li> </ul>	12 A 12 A
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
<b>efficiency</b>	
efficiency in percent	88 %
power loss [W]	
<ul style="list-style-type: none"> <li>at rated output voltage for rated value of the output current typical</li> <li>during no-load operation maximum</li> </ul>	16 W 3 W
<b>closed-loop control</b>	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
setting time	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	0.2 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic current limiting (2 ... 10 A) in the range 3 ... 12 V or power limiting (120 W) in the range 12 ... 52 V
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
enduring short circuit current RMS value	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	12 A
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	3.5 mA
protection class IP	IP20
<b>EMC</b>	
standard	
<ul style="list-style-type: none"> <li>for emitted interference</li> <li>for mains harmonics limitation</li> <li>for interference immunity</li> </ul>	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>CE marking</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• UL approval</li> <li>• EAC approval</li> <li>• Regulatory Compliance Mark (RCM)</li> <li>• NEC Class 2</li> </ul>	<p>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259</p> <p>Yes</p> <p>Yes</p> <p>No</p>
type of certification	
<ul style="list-style-type: none"> <li>• CB-certificate</li> </ul>	Yes
MTBF at 40 °C	1 200 000 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• IECEx</li> <li>• ATEX</li> <li>• ULhazloc approval</li> <li>• FM registration</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p>
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	No
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• French marine classification society (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p>
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>	<p>-25 ... +70 °C; Derating &gt; 60°C: 2%/°K</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>	
type of electrical connection	screw terminal
<ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for auxiliary contacts</li> </ul>	<p>L1, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm<sup>2</sup> single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.5 ... 2.5 mm<sup>2</sup> single-core/finely stranded</p> <p>Alarm signals, control inputs: screw-type terminals for 0.14 ... 1.5 mm<sup>2</sup> single-core/finely stranded</p>
<b>mechanical data</b>	
width × height × depth of the enclosure	42 × 125 × 135 mm
installation width × mounting height	42 mm × 225 mm
required spacing	
<ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
<ul style="list-style-type: none"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>	<p>Yes</p> <p>No</p> <p>No</p>
housing can be lined up	Yes
net weight	0.55 kg
<b>further information internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: power supplies</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://siemens.com/sitop">https://siemens.com/sitop</a></p> <p><a href="https://siemens.com/cax">https://siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<b>additional information</b>	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber

threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

**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	10	EC002540
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](#)

[Declaration of Conformity](#)



[China RoHS](#)



**General Product Approval**



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