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		
Input	1-phase AC or DC	
Rated voltage value Vin rated	120 230 V	
Voltage range AC	85 264 V	
Note	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	
Mains buffering	With Pa = 120 W and Ue = 230 V AC	
Mains buffering at lout rated, min.	80 ms; With Pa = 120 W and Ue = 230 V AC	
Rated line frequency 1	50 Hz	
Rated line frequency 2	60 Hz	
Rated line range	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	
Switch-on current limiting (+25 °C), max.	35 A	
l²t, max.	1 A ^{2.} s	
Built-in incoming fuse	T 3.15 A (not accessible)	
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 6-10 A characteristic C	
Output		
Output	Controlled, isolated DC voltage	
Rated voltage Vout DC	24 V	
Output voltage	3-52 V DC	
Total tolerance, static ±	1 %	
Static mains compensation, approx.	0.1 %	
Static load balancing, approx.	1 %	
Sense line connection max. voltage control per line	0.5 V	
Residual ripple peak-peak, max.	50 mV	
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV	

Adjustment range	0 52 V
product function output voltage adjustable	Yes
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)
Status display	Two-color LED: green for 24 V o.k., red for overload
Signaling	DC OK via relay contact, current monitor signal (0 to 2.5 V correspond to 0 to 10 A)
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	20 ms
Rated current value lout rated	10 A
Current range	0 10 A
• Note	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
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	16 W
power loss [W] during no-load operation maximum	3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	5 %
setting time maximum	0.2 ms
Protection and monitoring	
Output overvoltage protection	≤ 60 V according to EN 60950-1
Current limitation	2 10 A
Current limitation	Can be set with potentiometer or analog control voltage signal 0.5 2.5
property of the output short-circuit proof	_ Yes
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
enduring short circuit current RMS value	
• maximum	12 A
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
leakage current	
• maximum	3.5 mA
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	
Explosion protection	-
certificate of suitability NEC Class 2	– No
FM approval	
CB approval	Yes
certificate of suitability EAC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
Marine approval	-
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Notes initiality	

environmental conditions	
ambient temperature	
 during operation 	-25 +70 °C
— Note	Derating > 60°C: 2%/°K
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L1, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm ² single-core/finely stranded
Auxiliary	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
Weight, approx.	0.55 kg
product feature of the enclosure housing can be lined up	Yes
Installation	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 (unless otherwise specified)

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