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Product data sheet 6EP1331-5BA10

SITOP PSU100C 24 V/1.3 A STABILIZED POWER SUPPLY INPUT: AC 120-230 V (DC 110-300 V) OUTPUT: DC 24 V/1.3 A

Technical specifications	
Product	SITOP PSU100C
Power supply, type	24 V/1.3 A
Input	
Input	1-phase AC or DC
Rated voltage value Vin rated	100 … 230 V
Voltage range	85 … 264 V
Input voltage / at DC	110 … 300 V
Wide-range input	Yes
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at Iout rated, min.	20 ms
Mains buffering	at Vin = 230 V
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 100 V / nominal value	0.63 A
Input current / at nominal level of the input voltage 230 V	0.31 A
Switch-on current limiting (+25 °C), max.	34 A
Inrush current A^2s	1.2 $A^2 \cdot s$
Built-in incoming fuse	internal

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Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A, characteristic B or from 10 A, characteristic C
Output	
Output	controlled, isolated DC voltage
Rated voltage	24 V
Total tolerance, static ±	3 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	25 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Adjustment range	22.2 … 26.4 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	Overshoot of Vout approx. 5 %
Startup delay, max.	0.6 s
Voltage rise, typ.	90 ms
Rated current value Iout rated	1.3 A
Current range	0 … 1.3 A
• Note	1.3 A up to +55 °C, 0.7 A up to +70 °C
delivered active power / typ.	30 W
short-term overload current / at short-circuit during operation / typical	3.1 A
Parallel switching for enhanced performance	Yes
• Note	Start-up with single nominal load only
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	86 %
Power loss at Vout rated, Iout rated, approx.	4.5 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	5 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	1.4 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	-

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Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.4 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	ATEX (EX) II 3G Ex nA IIC T4; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
FM approval	-
CB approval	Yes
Marine approval	GL and ABS in process
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	-20 … +70 °C
• Note	with natural convection
Ambient temparature / on transport	-40 … +85 °C
Ambient temparature / in storage	-40 … +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L, N, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm²
Connections / Output	+: 1 screw terminal for 0.5 ... 2.5 mm²; -: 2 screw terminals for 0.5 ... 2.5 mm²
Connections / Auxiliary	-
Width / of the housing	30 mm
Height / of the housing	80 mm
Depth / of the housing	100 mm
Installation width	30 mm
Mounting height	180 mm
Weight, approx.	0.17 kg
Product feature / of the housing / housing for side-by-side mounting	Yes

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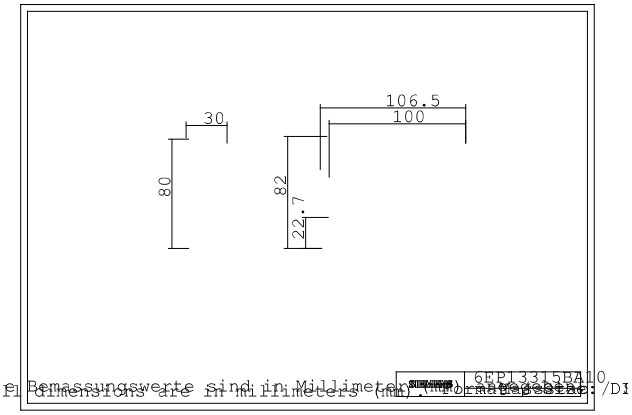
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Removable spring-type terminal 6EP1971-5BA00
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



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