

Technical specifications

Order No. 6EP1 332-2BA00

Technical specifications

Product SITOP power

Power supply, type 24 V/3.7 A

Input

Input 1-phase AC

Supply voltage

- 1 at AC nominal value

120 V

- 2 at AC nominal value

230 V

- Note

Set via wire jumper

Input voltage

- 1 at AC

93 ... 132 V

- 2 at AC

187 ... 264 V

Overvoltage resistance

$2.3 \times V_{in}$ rated, 1.3 ms

Mains buffering at I_{out} rated, min. 10 ms

Mains buffering

at $V_{in} = 93/187$ V

Rated line frequency

- 1

50 Hz

- 2

60 Hz

Rated line range

47 ... 63 Hz

Input current	
▪ at nominal level of the input voltage 120 V nominal value	1.8 A
▪ at nominal level of the input voltage 230 V nominal value	0.7 A
Switch-on current limiting (+25 °C), max.	32 A
Duration of current limiting at 25 °C typical	3 ms
I^2t , max.	0.8 A ² ·s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A, characteristic C
Output	
Output	controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	0.15 V
Spikes peak-peak, max. (bandwidth: 20 MHz)	0.24 V
Adjustment range	22.8 ... 26.4 V

Product feature output voltage adjustable	Yes
Output voltage setting	via potentiometer
Note	only permissible at ambient temperatur 0 °C to +50 °C
Status display	Green LED for 24 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value Iout rated	3.7 A
Current range	0 ... 3.7 A
delivered active power typ.	90 W
Parallel switching for enhanced performance	Yes
Note	only permissible at ambient temperature 0 °C to 50 °C
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	80 %
Power loss at Vout rated, Iout rated, approx.	22 W
Closed-loop control	
Dynamic mains compensation (Vin	0.3 %

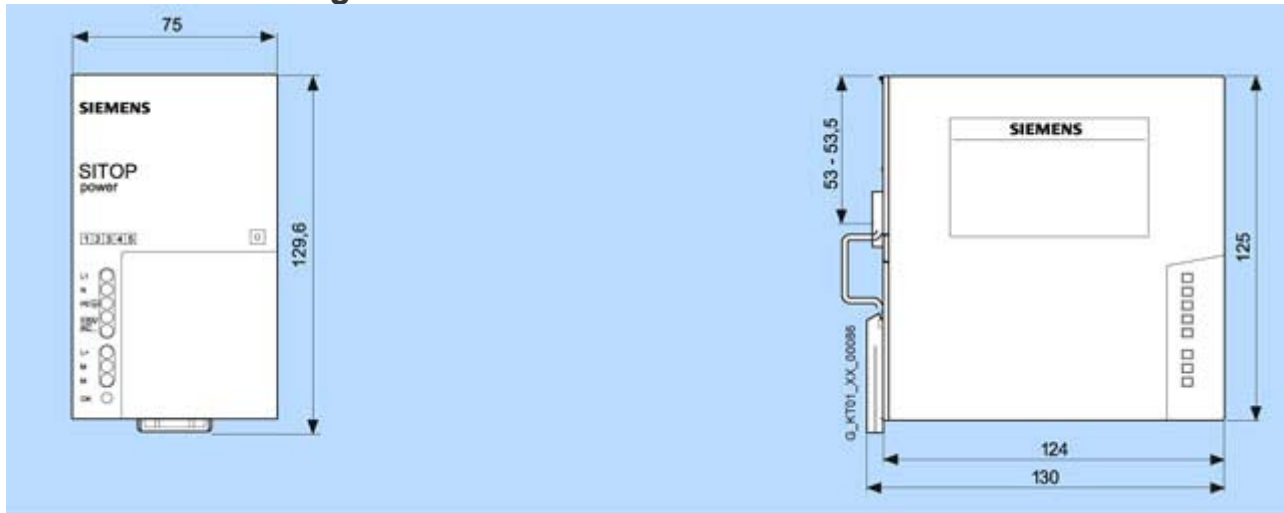
rated $\pm 15\%$), max.	
Dynamic load smoothing (Iout: 50/100/50 %), Uout \pm typ.	2.5 %
Load step setting time 50 to 100%, typ.	0.2 ms
Load step setting time 100 to 50%, typ.	0.2 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation	3.8 ... 4.1 A
Characteristic feature of the output short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
stray current	
▪ maximum	3.5 mA
▪ typical	0.4 mA
CE mark	Yes

UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289; cURus-Recognized (UL 1950, CSA C22.2 No. 60950), File 151273; UL 1310
Explosion protection	-
FM approval	No
FM approval	-
CB approval	No
Marine approval	-
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature	
▪ in operation	0 ... 60 °C
▪ Note	with natural convection
Ambient temperature	
▪ on transport	-40 ... +85 °C
Ambient temperature	

▪ 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: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded
▪ Output	L+: 1 screw terminal for 0.5 ... 2.5 mm ² ; M: 2 screw terminals for 0.5 ... 2.5 mm ²
▪ Auxiliary	-
Width of the housing	75 mm
Height of the housing	125 mm
Depth of the housing	125 mm
Installation width	75 mm
Installation height	225 mm
Weight, approx.	0.75 kg
Product feature of the housing housing for side-by-side mounting	Yes
Type of mounting wall mounting	No
Type of fixing cap rail mounting	Yes
Type of mounting S7-300 rail mounting	No



Dimensional drawings



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