

# SIEMENS

The Latest  
Developments  
in SITOP

## SITOP power 24 V/3.5 A The Stabilized Load Power Supply, an Optimum for the SIMATIC S7-200

SITOP® power 24 V/3.5 A is the optimum power supply when the connected loads cannot be powered by the standard SIMATIC® S7-200 CPU. In its design and functional features, the primary switched-mode regulator is fully tuned to the new micro-PLC. It can be integrated in the PLC system like an S7-200 module. The compact power supply module can be fitted to the common DIN rail.

High-consumption output modules and connected loads are reliably powered with 24 V. Even very sensitive electronic loads, such as analog transducers, can be operated with the precisely regulated 24 V DC voltage.

Using the SITOP power supply for the system and loads allows you to make use of the more advantageous S7-200 CPU with 24 V DC input.

The selectable 120 V/230 V AC input and the high Class B RI specification allow operation in almost any environment, both in industry or in domestic systems. And, of course, not only with SIMATIC – the advantages of a SITOP stabilized power supply are always welcome:

- Longer life of the connected loads thanks to enhanced protection against AC system fluctuations and disturbances
- High efficiency resulting in minimum heat development
- Simple installation thanks to low weight and DIN rail mounting
- Favorable price.

If 3.5 amperes of output current are not sufficient, you can choose another SITOP power supply. Different versions with output currents of up to 40 A are available.



## Technical Specifications

Type	uni E 24/3.5
Order No.	6EP1332-1SH31
<b>Input voltage</b>	
$U_{in \text{ rated}}$	120/230 V AC
Range	93...132/187...264 V AC
Buffering of power outages at $I_{out \text{ rated}}$	> 20 ms
<b>System frequency</b>	
Rated value	50/60 Hz
Range	47... 63 Hz
<b>Input current</b>	
$I_{in \text{ rated}}$	1.65/0.95 A (120/230 V)
Inrush current limiting (25°C)	< 33 A, < 3 ms ( $U_{in} = 230 \text{ V}$ )
$I^2t$	< 1.0 A <sup>2</sup> s
Integral input fuse	2.5 A slow (not accessible)
Recommended circuit-breaker (IEC 898) in the supply cable	two-pole CB from 10 A characteristic C, or D from 6 A
<b>Output voltage</b>	
Rated value	24 V DC
Overall tolerance	± 5 %
Ripple (switching frequency approx. 50 kHz)	< 150 mV <sub>pp</sub>
Switching peaks (20 MHz bandwidth)	< 240 mV <sub>pp</sub>
Soft start/voltage rise	< 3 sec./< 500 ms
<b>Output current</b>	
$I_{out \text{ rated}}$	3.5 A
Range at +60°C	0 to 3.5 A
Efficiency/power dissipation	> 84 %/< 16 W
Connectable in parallel to increase power	Yes, up to 5 units
Current limiting	3.8 A typical
Electronic short-circuit protection	Yes, automatic restart
<b>Safety</b>	
Isolation, primary/secondary	Yes, SELV to EN 60950
Protection class (IEC 536, VDE 0106 Part 1)	Class I
Degree of protection (IEC 529, DIN VDE 0470 Part 1)	IP 20
TÜV type tested, CE marking	yes, yes
UL/cUL (CSA)-recognized	yes, UL 508, File 143 289
RI specification (EN 55022)	Class B
<b>Connections</b>	
Input L, N, PE solid/stranded	0.5 to 1.0 mm <sup>2</sup> /1.5 mm <sup>2</sup>
Output L+	1 terminal for 0.5 to 1.0 mm <sup>2</sup>
Output M	2 terminals for 0.5 to 1.0 mm <sup>2</sup>
Humidity class (DIN 40 040)	F
Ambient temperature	0 to +60 °C
Transportation and storage temperature	-25 to +85 °C
Dimensions (W x H x D) in mm	160 x 80 x 62
Weight	Approx. 0.5 kg

Your personal contact partner

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