

SITOP compact power supply

Extremely efficient in saving space and energy

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Space
savings of
up to 33%

Energy
savings of
up to 35%

SITOP compact

Answers for industry.

SIEMENS

Slimline power supply unit for control boxes

The SITOP PSU100C stabilized power supplies of the SITOP compact product line for the low-end performance range have an extremely slimline design that marks them out for distributed applications, e.g. installation in control boxes or small control cabinets.

With a width of just 22.5 to 52.5 mm, the power supply units require up to 1/3 less space on the mounting rail than comparable devices. Another convincing feature of these 12 V and 24 V power supplies is their high efficiency across the entire load range. And because the power losses are also extremely low, even in no-load operation, users save up to 35% of energy.

The wide-range input enables problem-free connection to single-phase AC networks as well as to DC networks. The plug-in terminals also ensure user-friendly connection.

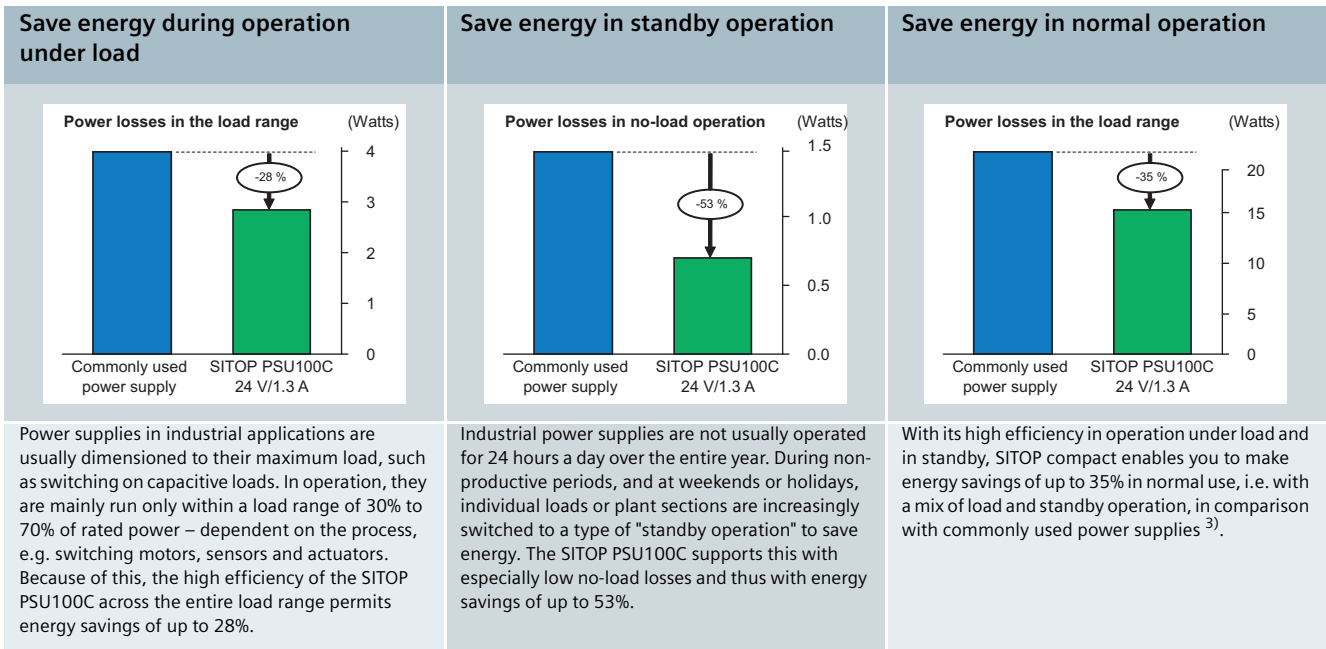
The benefits at a glance

- Power supplies 24 V/0.6 A, 1.3 A, 2.5 A and 4 A
12 V/2.0 A and 6.5 A
- Small mounting surface thanks to slimline design
- Low energy consumption thanks to high efficiency across the entire load range
- Minimum energy losses in no-load operation
- Connection via plug-in terminals
- Wide-range input 85... 264 V AC for 120 V and 230 V AC single-phase networks without changeover
- Operation on 110 to 300 V DC networks
- Adjustable output voltage
- Operating temperature –20 to +70 °C
- International package of standards

Selection table SITOP compact			
Output voltage/current	12 V/2 A	12 V/6.5 A	24 V/0.6 A
Order No. ¹⁾	6EP1321-5BA00	6EP1322-5BA10	6EP1331-5BA00
Rated input voltage	100 ... 230 V AC	100 ... 230 V AC	100 ... 230 V AC
• Range	85 ... 264 V AC/110 ... 300 V DC	85 ... 264 V AC/110 ... 300 V DC	85 ... 264 V AC/110 ... 300 V DC
Mains buffering	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.63 ... 0.31 A	1.56 ... 0.75 A	0.28 ... 0.12 A
• Recommended miniature circuit	Char. C: from 10 A ; char. B: from 16 A	Char. C: from 10 A ; char. B: from 16 A	Char. C: from 10 A ; char. B: from 16 A
Rated output voltage	12 V DC	12 V DC	24 V DC
• Tolerance	± 3 %	± 3 %	± 3 %
• Setting range	10.5 ... 12.9 V DC	10.5 ... 12.9 V DC	–
Rated output current	2 A	6.5 A	0.6 A
• Derating range	+55 °C to 70 °C	+50 °C to 70 °C	+55 °C to 70 °C
Efficiency at rated values, approx.	82 %	85 %	82 %
Energy losses in no-load operation	< 0.5 W	< 0.75 W	< 0.5 W
Switching in parallel	yes	yes	yes
Electronic short-circuit protection	yes, restart	yes, restart	yes, restart
Radio interference suppression	Class B	Class B	Class B
Degree of protection (EN 60529)	IP20	IP20	IP20
Ambient temperature	–20 ... +70 °C	–20 ... +70 °C	–20 ... +70 °C
Connections ²⁾	removable screw terminals	removable screw terminals	removable screw terminals
Certifications	CE, UL, CSA, ATEX	CE, UL, CSA, ATEX	CE, UL, CSA, ATEX
Dimensions (W x H x D) in mm	30 x 80 x 100 mm	52.5 x 80 x 100 mm	22.5 x 80 x 100 mm
Weight approx.	0.17 kg	0.32 kg	0.12 kg

¹⁾ You will find up-to-date ordering data and prices as well as our terms of sale and delivery on the Internet at: www.siemens.com/industrymall

²⁾ Accessories: removable spring terminals, Order No. 6EP1971-5BA00 (Packing unit 100 pieces, for 50 SITOP PSU100C power supplies)



³⁾ Average value of comparable devices on the market

			Selection table SITOP compact
24 V/1.3 A	24 V/2.5 A	24 V/4 A	Output voltage/current
6EP1331-5BA10	6EP1332-5BA00	6EP1332-5BA10	Order No. ¹⁾
100 ... 230 V AC 85 ... 264 V AC/110 ... 300 V DC	100 ... 230 V AC 85 ... 264 V AC/110 ... 300 V DC	100 ... 230 V AC 85 ... 264 V AC/110 ... 300 V DC	Rated input voltage • Range
> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	Mains buffering
50/60 Hz	50/60 Hz	50/60 Hz	Rated line frequency
0.63 ... 0.31 A Char. C: from 10 A ; char. B: from 16 A	1.33 ... 0.67 A Char. C: from 10 A ; char. B: from 16 A	1.56 ... 0.75 A Char. C: from 10 A ; char. B: from 16 A	Rated input current • Recommended miniature circuit
24 V DC ± 3 % 22.2 ... 26.4 V DC	24 V DC ± 3 % 22.2 ... 26.4 V DC	24 V DC ± 3 % 22.2 ... 26.4 V DC	Rated output voltage • Tolerance • Setting range
1.3 A +55 °C to 70 °C	2.5 A +50 °C to 70 °C	4 A +50 °C to 70 °C	Rated output current • Derating range
86 %	89 %	88 %	Efficiency at rated values, approx.
< 0.75 W	< 0.75 W	< 0.75 W	Energy losses in no-load operation
yes	yes	yes	Switching in parallel
yes, restart	yes, restart	yes, restart	Electronic short-circuit protection
Class B	Class B	Class B	Radio interference suppression
IP20	IP20	IP20	Degree of protection (EN 60529)
-20 ... +70 °C	-20 ... +70 °C	-20 ... +70 °C	Ambient temperature
removable screw terminals	removable screw terminals	removable screw terminals	Connections ²⁾
CE, UL, CSA, ATEX	CE, UL, CSA, ATEX	CE, UL, CSA, ATEX	Certifications
30 x 80 x 100 mm	45 x 80 x 100 mm	52.5 x 80 x 100 mm	Dimensions (W x H x D) in mm
0.17 kg	0.22 kg	0.32 kg	Weight approx.

Note:
Technical data apply with rated input voltage and +25°C ambient temperature (if not specified otherwise).

Further information

More information on SITOP compact:
www.siemens.com/sitop-compact

Using the SITOP Selection Tool to select the appropriate power supply:
www.siemens.com/sitop-selection-tool

Information material for downloading:
www.siemens.com/sitop-infomaterial

Operating instructions for downloading:
www.siemens.com/sitop/manuals

CAX files (2D, 3D, circuit macro) for downloading:
www.siemens.com/sitop-cax

Electronic ordering via the Internet with the Industry Mall:
www.siemens.com/industrymall

Your personal contact partner is listed at:
www.siemens.com/automation/partner

Siemens AG
Industry Sector
Industrial Automation
Postfach 48 48
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GERMANY

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