

# Reliable Power – Safety Included.

## Reliability has a name: SITOP

Modern automation technology is becoming more and more demanding, incorporating electronics that are increasingly sophisticated and sensitive. Therefore, a reliable power supply is the prerequisite for safe efficient system operations. For over a decade, Siemens has engineered SITOP power supplies to be the best solutions - in terms of reliability, sturdiness and expandability. The proof? More than five million units sold protecting our customers against system downtime and production losses.

### Mix and match – for your safety

SITOP. The perfectly harmonized and complete offer

### Highly flexible solutions – Customized to your system

SITOP. One platform - unlimited possibilities



*SITOP modular:  
power supplies meeting  
your requirements*

The quality of the 24 V power packs alone does, however, not guarantee uninterrupted power. Total loss of power, extreme network voltage fluctuations or a single faulty load may cause system downtime and considerable financial loss. For this reason, SITOP offers a unique range of add-on modules for protection against various safety hazards. Thanks to its flexible expansion options, SITOP can even be retrofitted in such a way as to provide all-round protection.

The product family of SITOP DIN rail power packs consists of two product lines. The extra-narrow SITOP smart line, featuring all standard functions and the SITOP modular line for even higher demands.

Both product lines stand out with maximum quality and reliability. Moreover, their high degree of functionality offers optimum safety in case of power failures. Combined with other SITOP add-on modules, your system can be protected against all external impacts and precisely tailored to special safety

## SITOP smart

The narrow universal power supply



### Technical specifications

### SITOP smart 1-phase

SITOP	24 V/2.5 A	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
Order No.	6EP1332-2BA10	6EP1333-2AA01	6EP1333-2BA01	6EP1334-2AA01	6EP1334-2BA01
Input voltage rated value - range	120/230 V AC 85...132/170...264 V AC	120/230 V AC 85...132/170...264 V AC	120/230 V AC 85...132/170...264 V AC	120/230 V AC 85...132/170...264 V AC	120/230 V AC 85...132/170...264 V AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)
Line frequency rated value	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input current rated value - inrush current (25 °C / 77 °F) - recommended protection in the supply cable	1.1/0.65 A < 14 A from 3 A characteristic C	2.1/1.15 A < 32 A from 6 A characteristic C	2.1/1.15 A < 32 A from 6 A characteristic C	4.1/2.4 A < 65 A from 10 A characteristic C	4.1/2.0 A < 65 A from 10 A characteristic C
Output voltage rated value - tolerance - setting range	24 V DC ± 3% 22.8...28 V DC	24 V DC ± 3% 22.8...28 V DC	24 V DC ± 3% 22.8...28 V DC	24 V DC ± 3% 22.8...28 V DC	24 V DC ± 3% 22.8...28 V DC
Output current rated value	2.5 A (3 A up to +45°C)	5 A (6 A up to +45°C)	5 A (6 A up to +45°C)	10 A (12 A up to +45°C)	10 A (12 A up to +45°C)
Efficiency at rated value approx.	85%	87%	87%	90%	91%
Parallel switch for higher perf.	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, constant current approx. 1.3 x output current rated value, overload capacity 1.5 x output current rated value for 5 seconds				
RI specification (EN 55022)	Class B	Class B	Class B	Class B	Class B
Line harmonic limitation EN 61000-3-2	Not applicable	No	Yes	No	Yes
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20	IP 20	IP 20
Ambient temperature	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C
Dimensions (W x H x D) in mm	32.5x125x125	50x125x125	50x125x125	70x125x125	70x125x125
Weight approx.	0.4 kg	0.5 kg	0.5 kg	0.75 kg	0.8 kg
Approvals	CE; UL; CSA; GL; ATEX; Hazardous Location Class I Div 2 Groups A, B, C & D, T4				

## SITOP facets

from our complete offer



### Technical specifications

### SITOP power 0.5

### SITOP power Flat Design

### SITOP Outdoor<sup>2)</sup>

### SITOP flexi

SITOP	24 V/0,5 A	24 V/5 A	24 V/10 A	24 V/5 A	3 ... 52 V/10A
Order No.	6EP1331-2BA10	6EP1333-1AL12	6EP1334-1AL12	6ES7307-1EA80-0AA0	6EP1353-2BA00
Input voltage rated value - range	120-230 V <sup>1)</sup> AC 93...264 V AC	120/230 V AC 85...132/170...264 V AC	120/230 V AC 85...132/170...264 V AC	120/230 V AC 93...132/187...264 V AC	120/230 V AC 85...132/170...264 V AC
Mains buffering	> 10 ms (at 230 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 10 ms (at 93/187 V)
Line frequency rated value	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input current rated value - inrush current (25 °C / 77 °F) - recommended protection in the supply cable	0.22-0.13 A < 23 A from 3 A charact. C	2.2/1.2 A < 32 A from 6 A charact. C	4/2.5 A < 65 A from 10 A charact. C	2.2/1.2 A < 45 A from 10 A charact. C	2.2/0.9 A < 32 A from 6 A charact. C
Output voltage rated value - tolerance - setting range	24 V DC ± 3% —	24 V DC ± 1% 22...29 V DC	24 V DC ± 1% 22...29 V DC	24 V DC ± 3% —	24 V DC ± 1% 3...52 V DC
Output current rated value	0.5 A	5 A	10 A	5 A	2-10 A (max. 120 W)
Efficiency at rated values approx.	74%	88%	89%	84%	84% (at 24 V/5 A)
Parallel switch for higher perf.	No	Yes	Yes	No	Yes
Electronic short-circuit protection	Yes	Yes	Yes	Yes	Yes
RI specification (EN 55022)	Class B	Class B	Class B	Class A	Class B
Line harmonic limitation EN 61000-3-2	Not applicable	No	No	No	Yes
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20	IP 20	IP 20
Ambient temperature	-20...+70 °C	0...+60 °C	0...+60 °C	-25...+60 °C	0...+60 °C
Dimensions (W x H x D) in mm	22.5 x 80 x 91	160 x 130 x 60	160 x 130 x 60	80 x 125 x 120	75 x 125 x 125
Weight approx.	0.11 kg	0.6 kg	0.72 kg	0.57 kg	0.9 kg
Approvals	CE, cULus	CE, cULus	CE, cULus	CE, UL, CSA	CE, cULus

<sup>1)</sup> With input voltage 48-220 V DC, Order No. 6EP1731-2BA00

<sup>2)</sup> Condensation permissible, increased vibration and shock resistance

For further SITOP power supplies, please refer to the KT 10.1 catalog

## LOGO!Power

The mini power packs



### Technical specifications

### 54 mm housing

### 72 mm housing

### 90 mm housing

SITOP	5 V/3 A	12 V/1.9 A	15 V/1.9 A	24 V/1.3 A	5 V/6.3 A	12 V/4.5 A	15 V/4 A	24 V/2.5 A	24 V/4 A
Order No.	6EP1311-1SH02	6EP1321-1SH02	6EP1351-1SH02	6EP1331-1SH02	6EP1311-1SH12	6EP1322-1SH02	6EP1352-1SH02	6EP1332-1SH42	6EP1332-1SH51
Input voltage rated value -range	100-240 V AC 85...264 V AC				100-240 V AC 85...264 V AC				100-240 V AC 85...264 V AC
Mains buffering	> 40 ms (at 187 V)				> 40 ms (at 187 V)				> 40 ms (at 187 V)
Line frequency rated value	50/60 Hz				50/60 Hz				50/60 Hz
Input current rated value - inrush current (25 °C / 77 °F) - recommended protection in the supply cable	0.36-0.22 A < 15 A from 10 A characteristic C or 16 A characteristic B	0.53-0.30 A	0.63-0.33 A	0.70-0.35 A	0.71-0.37 A < 30 A from 10 A characteristic C or 16 A characteristic B	1.13-0.61 A	1.24-0.68 A	1.22-0.66 A	1.95-0.97 A < 30 A from 10 A char. C or 16 A char. B
Output voltage rated value -tolerance -setting range	5 V DC ± 3% 4.6...5.4 V DC	12 V DC	15 V DC	24 V DC	5 V DC	12 V DC	15 V DC	24 V DC	24 V DC
Output current rated value	3.0 A	1.9 A	1.9 A	1.3 A	6.3 A	4.5 A	4.0 A	2.5 A	4.0 A
Efficiency at rated value approx.	76%	80%	80%	82%	83%	85%	85%	87%	89%
Parallel switch for higher perf.	Yes				Yes				Yes
Electronic short-circuit protection	Yes, constant current				Yes, constant current				Yes, constant current
RI specification (EN 55022)	Class B				Class B				Class B
Line harmonic limitation EN 61000-3-2	Not applicable				Not applicable				Yes
Degree of prot. (EN 60529)	IP 20				IP 20				IP 20
Ambient temperature	-20...+55 °C				-20...+55 °C				-20...+55 °C
Dimensions (W x H x D) in mm	54 x 90 x 55				72 x 90 x 55				90 x 90 x 55
Weight approx.	0.17 kg				0.25 kg				0.34 kg
Approvals	CE, cULus, FM, GL	CE, cULus, FM, GL, ABS	CE, cULus, FM, GL	CE, cULus, FM, GL, ABS	CE, cULus, FM, GL	CE, cULus, FM, GL, ABS	CE, cULus, FM, GL	CE, cULus, FM, GL, ABS	CE, cULus, FM, GL, ABS