

# Reliability in a compact design.

## The universal SITOP smart power supply



### The advantages at a glance

The SITOP smart DIN rail-mounted power supply units impress with their slim design and their outstanding overload reactions. Even high loads can be switched on without any problems. Nominal outputs of continuous 120 percent position the power supplies as the most reliable of their class. Numerous certifications simplify their universal and worldwide use, as well as their deployment under hazardous conditions. The new 10 A power supply with 48 V DC output voltage enables cables with a smaller conductor cross section to be used with the same output power. With a width of only 70 mm the 480 watt device is one of the most compact in its performance class.

- Regulated power supply: 24 V DC/2.5 A, 5 A and 10 A, the standard supply for automation systems
- 48 V DC/10 A, enables smaller conductor cross sections with the same power
- Compact design requires minimum mounting surface
- Extra power: 150% of the nominal output current for 5 seconds allows trouble-free energizing of loads with high starting current such as DC/DC converters and motors
- Increased output due to continuous 120% of the nominal output up to 45 °C (24 V DC devices)
- Increased adjustment range of the output voltage
- Parallel connection possible for increased performance
- Extensive certification
- Universal use worldwide – in industrial or residential applications
- 24 V DC devices can be combined with SITOP add-ons: Redundancy module, DC UPS/battery modules, SITOP select diagnosis module

# SITOP smart

Answers for Industry.

**SIEMENS**

## SITOP smart – your plant will run and run and run...

Maximum quality and reliability in combination with high functionality reduce downtimes to a minimum. Perfectly coordinated SITOP add-on modules provide additional safety. For example, SITOP smart can quite easily be upgraded into an uninterruptible power supply by adding a DC UPS module and a battery. The redundancy module and a second power

supply of the same type enable redundant operation. In combination with the SITOP select diagnosis module, individual 24 V DC load circuits can be reliably protected. SITOP smart thus becomes the ideal 24 V DC power supply solution – providing excellent protection for a wide range of applications.

SITOP smart power supplies						
						
Technical Data	SITOP smart single-phase					SITOP smart three-phase, 48 V
SITOP	24 V DC/2.5 A	24 V DC/5 A	24 V DC/5 A	24 V DC/10 A	24 V DC/10 A	48 V DC/10 A
Order no.	6EP1332-2BA10	6EP1333-2AA01	6EP1333-2BA01	6EP1334-2AA01	6EP1334-2BA01	6EP1456-2BA00
Rated input voltage – 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		400–500 V 3 AC 360...550 V 3 AC
Line buffering	> 20 ms (at 93/187 V AC)	> 20 ms (at 93/187 V AC)		> 20 ms (at 93/187 V AC)		> 7 ms (at 400 V 3 AC)
Rated line frequency	50/60 Hz	50/60 Hz		50/60 Hz		50/60 Hz
Rated input current	1.1/0.65 A	2.1/1.15 A		4.1/2.4 A	4.1/2.0 A	1.1–0.9 A
– Inrush current (25 °C)	< 27 A	< 32 A		< 65 A		< 18 A
– Recommended miniature circuit-breaker	From 3 A characteristics C	From 6 A characteristics C		From 10 A characteristics C		From 6–16 A charact. C, 3-ph. coupled or 3 RV1021-1DA10 or 3 RV1721-1DD10
Rated output voltage	24 V DC	24 V DC		24 V DC		48 V DC
– Tolerance	± 3%	± 3%		± 3%		± 3%
– Setting range	22.8...28 V DC	22.8...28 V DC		22.8...28 V DC		42...56 V DC
Rated output current	2.5 A (3 A up to +45 °C)	5 A (6 A up to +45 °C)		10 A (12 A up to +45 °C)		10 A
Efficiency at rated values approx.	85%	87%		90%	91%	93%
Can be switched in parallel for boosting performance	Yes	Yes		Yes		Yes
Electronic short-circuit protection	Yes. Constant current approx. 1.3 x rated output current. Extra Power: 1.5 x rated output current for 5 seconds/minute					
RI specification (EN 55022)	Class B	Class B		Class B		Class B
Line harmonic limiting in accordance with EN 61000-3-2	Not applicable	No	Yes	No	Yes	Yes
Degree of protection EN 60529	IP20	IP20		IP20		IP20
Ambient temperature (without derating)	0...+60 °C	0...+60 °C		0...+60 °C		0...+60 °C
Dimensions (W x H x D) in mm	32.5 x 125 x 125	50 x 125 x 125		70 x 125 x 125		70 x 125 x 125
Weight, approx.	0.4 kg	0.5 kg	0.5 kg	0.75 kg	0.8 kg	1.2 kg
Certificates	CE; UL; CSA; GL; ATEX; Hazardous Location Class I Div 2 Groups A, B, C & D, T4					CE; cULus

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