

# The flexible power supply for a wide variety of applications

Technical Description · March 2008



## All advantages at a glance

Maximum flexibility is required when supplying power to a variety of applications:

it can be 5 V one time, then 15 V and then possibly 46.5 V DC. For these applications, SITOP flexi is the smart solution.

With this universal power supply unit, you can easily set output voltages between 3 V and 57 V DC. All you need is this standard product – no need to waste time and money purchasing a whole range of different units. Save shipping and servicing costs too! Many additional features make applications possible that other conventional supplies just cannot match. Quite flexible, isn't it?

- Output continuously adjustable from 3 V to 57 V DC
- Dynamic adjustment of the output voltage also possible via analog input signal
- Many possible applications, e.g. motor speed control or test rig supply
- One universal supply can simplify configuring, servicing and spares backup, available from stock
- Remote diagnostics through floating relay contact as "Power Good" signal
- Load monitoring via integrated current monitor: output current value as analog signal
- Precise voltage at load thanks to remote sensing
- Constant current characteristic in case of overload ensures the start-up
- Standard DIN Rail mounting

# SITOP flexi

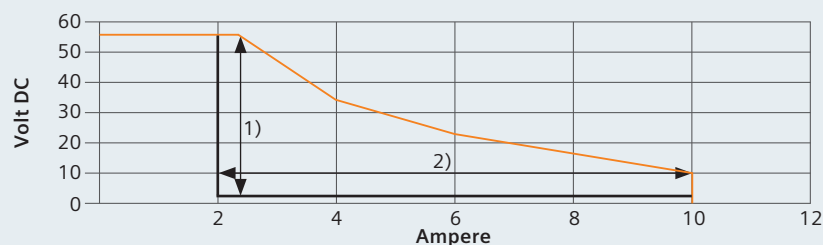
Answers for Industry.

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## Technical specifications

SITOP flexi		
<b>Input data</b>	Input voltage – Rated input voltage – Range	Single-phase AC voltage 120 / 230 V AC, adjustable using wire jumper 85 to 132/170 to 264 V AC
	Hold-up time	> 10 ms 93 / 187 V and 120 W
	Mains frequency – Rated frequency – Range	50/60 Hz 47 to 63 Hz
	Input current – Rated value – Inrush current (+25 °C) – I <sup>2</sup> t – Integral input fuse – Recommended primary side protection	2.2/0.9 A < 32 A 0.8 A <sup>2</sup> s T 3.15 A (not accessible) 6 A characteristic C
<b>Output data</b>	Output voltage – Range of adjustment	Stabilized, floating DC voltage 3 ... 57 V DC, adjustable using potentiometer or remote-controlled via analog control voltage signal 0...2.5 V DC
	– Steady-state voltage tolerance – Residual ripple – Switching transients Output current, output power	1% < 50 mVpp < 100 mVpp Current limiting in range 3 to 12 V DC and power limiting in range 12 to 57 V DC
	– Max. output current (in range 3 to 12 V DC) – Max. output power (in range 12 to 57 V DC) – Current limiting	10 A 125 W 2 ... 10 A, adjustable using potentiometer or remote-controlled via analog control voltage signal 0 ... 2.5 V DC
	Efficiency at U <sub>I rated</sub> and 24 V DC/5 A output Parallel connection possible Electronic short-circuit protection Additional functions	Approx. 84% Yes Yes, constant current Sense line connection, power good signal (relay contact), current monitor
<b>RFI Specification</b>	RI suppression (EN 55022)	Class B
<b>Standards</b>	Protection class Electrical isolation (SELV to EN 60950) Degree of protection (EN 60529) IP20 Certification	Class I Yes IP20 CE, cULus-Listed (UL 508, CSAC22.2 No.142) File E143289
<b>General data</b>	Ambient temperature Storage and transport temperature Connections (solid or finely stranded conductors) – Connections for inputs L1, N, PE 1 – Connections for output L + – Connections for output M Dimensions W x H x D in mm (in) Approx. weight kg (lbs)	0 to +60 °C –25 to +85 °C  1 x 0.5 to 2.5 mm <sup>2</sup> (20 AWG – 12 AWG) each 1 x 0.5 to 2.5 mm <sup>2</sup> (20 AWG – 12 AWG) 2 x 0.5 to 2.5 mm <sup>2</sup> (20 AWG – 12 AWG) 75 x 125 x 125 (2.95 x 4.92 x 4.92) 0.9 (2)
<b>Ordering data</b>	Order No.	6EP1353-2BA00

### Output characteristic



1) Range of adjustment for output voltage

2) Range of adjustment for current limiting

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