

SITOP FLEXI 120 W
 SITOP power flexi stabilized power supply input: 120-230 V AC
 output: 3-52 V DC/10 A, 120 W



Input	
Input	1-phase AC
Supply voltage	
<ul style="list-style-type: none"> • 1 at AC Rated value • 2 at AC Rated value 	120 V 230 V
Rated voltage value V_{in} rated	120 ... 230 V
<ul style="list-style-type: none"> • Note 	Set via wire jumper
Input voltage	
<ul style="list-style-type: none"> • 1 at AC • 2 at AC 	85 ... 132 V 170 ... 264 V
Wide-range input	No
Overvoltage resistance	$2.3 \times V_{in}$ rated, 1.3 ms
Mains buffering at I_{out} rated, min.	10 ms; at $P_{out} = 120$ W and $V_{in} = 93/187$ V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 ... 63 Hz
Input current	
<ul style="list-style-type: none"> • at rated input voltage 120 V • at rated input voltage 230 V 	2.2 A 0.9 A

Switch-on current limiting (+25 °C), max.	32 A
I ² t, max.	0.8 A ² ·s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C

Output

Output	Controlled, isolated DC voltage
Rated voltage V _{out} DC	24 V
Output voltage	3-52 V DC
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Sense line connection max. voltage control per line	0.5 V
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	80 mV
Adjustment range	3 ... 52 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer or analog current voltage signal 0 ... 2.5 V
Status display	Green LED for 24 V OK
Signaling	Power-Good via relay contact, current monitor signal 0 ... 2.5 V
On/off behavior	No overshoot of V _{out} (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value I _{out} rated	10 A
• min.	2 A
• max.	10 A
Current range	0 ... 10 A
• Note	max. 120 W
Supplied active power typical	120 W
Constant overload current	
• on short-circuiting during the start-up typical	10 A
• at short-circuit during operation typical	10 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency

Efficiency at V _{out} rated, I _{out} rated, approx.	84 %
Power loss at V _{out} rated, I _{out} rated, approx.	23 W

Protection and monitoring

Output overvoltage protection	Yes, according to EN 60950-1
Current limitation	2 ... 10 A

Current limitation	2 ... 10 A, adjustable using potentiometer or analog control voltage signal 0 ... 2.5 V
Property of the output Short-circuit proof	Yes
Short-circuit protection	Electronic current limiting (2 ... 10 A) in the range 3 ... 12 V or power limiting (120 W) in the range 12 ... 52 V
Overcurrent overload capability in normal operation	According to the adjusted current regulation 2 ... 10 A
Overload/short-circuit indicator	Red LED for current or power limiting

Safety

Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current <ul style="list-style-type: none"> • maximum 	3.5 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	-
FM approval	-
CB approval	No
Marine approval	-
Degree of protection (EN 60529)	IP20

EMC

Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

Operating data

Ambient temperature <ul style="list-style-type: none"> • during operation — Note • during transport • during storage 	0 ... 60 °C with natural convection -40 ... +85 °C -40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics

Connection technology	screw-type terminals
Connections <ul style="list-style-type: none"> • Supply input • Output • Auxiliary 	L1, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded L+: 1 screw terminal for 0.5 ... 2.5 mm ² ; M: 2 screw terminals for 0.5 ... 2.5 mm ² Alarm signals, control inputs: 1 screw terminal each for 0.14 ... 1.5 mm ²
Width of the enclosure	75 mm

Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.9 kg
Product feature of the enclosure housing for side-by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 196 172 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)