

SITOP POWER 24 V/20 A
SITOP POWER 20 STABILIZED POWER SUPPLY INPUT: 120/230
V AC OUTPUT: 24 V DC/20 A



Figure similar

Input	
Input	1-phase AC
Supply voltage	
• 1 at AC Rated value	120 V
• 2 at AC Rated value	230 V
• Note	Set by means of wire jumper on the device
Input voltage	
• 1 at AC	93 ... 132 V
• 2 at AC	187 ... 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	10 ms; at Vin = 93/187 V
Rated line frequency	50 ... 60 Hz
Rated line range	47 ... 63 Hz
Input current	
• at rated input voltage 120 V	8 A
• at rated input voltage 230 V	3.3 A
Switch-on current limiting (+25 °C), max.	81 A
I²t, max.	8 A²·s

Built-in incoming fuse	T 10 A (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A characteristic C

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static $\pm$	3 %
Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Adjustment range	22.8 ... 26.4 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; only permissible at ambient temperatur 0 °C to +45 °C
Status display	Green LED for 24 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value Iout rated	20 A
Current range	0 ... 20 A
Supplied active power typical	480 W
Constant overload current	
• on short-circuiting during the start-up typical	20 A
• at short-circuit during operation typical	20 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at Vout rated, Iout rated, approx.	87 %
Power loss at Vout rated, Iout rated, approx.	72 W

Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	22 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value	
• maximum	22 A
Overload/short-circuit indicator	-

Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
Leakage current	

• maximum	3.5 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	UL-Listed (UL 508), File E143289, CSA (CSA 22.2 No. 14-95)
Explosion protection	-
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
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	
• during operation	0 ... 55 °C
— Note	with natural convection
• during transport	-25 ... +85 °C
• during storage	-25 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics

Connection technology	screw-type terminals
Connections	
• Supply input	L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
• Output	L+: 1 screw terminal for 0.33 ... 10 mm²; M: 2 screw terminals for 0.33 ... 10 mm²
• Auxiliary	-
Width of the enclosure	280 mm
Height of the enclosure	125 mm
Depth of the enclosure	92 mm
Weight, approx.	2.4 kg
Product feature of the enclosure housing for side-by-side mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Mechanical accessories	Mounting bracket 90° (6EP1971-2BA00)
MTBF at 40 °C	851 093 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)