SIEMENS

Data sheet 6EP1334-2AA01

SITOP SMART 24 V/10 A SITOP smart 240 W Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A



Input	
Input	1-phase AC
• Note	Set by means of selector switch on the device
Supply voltage	
• 1 at AC Rated value	120 V
• 2 at AC Rated value	230 V
Input voltage	
● 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
Input current	
 at rated input voltage 120 V 	4.1 A
 at rated input voltage 230 V 	2.4 A
Switch-on current limiting (+25 °C), max.	65 A

Duration of inrush current limiting at 25 °C	
• typical	3 ms
l²t, max.	3.3 A ² ·s
Built-in incoming fuse	T 6.3 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic C

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.5 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	150 mV
Adjustment range	22.8 28 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
On/off behavior	Overshoot of Vout approx. 4 %
Startup delay, max.	0.1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	10 A
Current range	0 12 A
• Note	12 A up to +45 °C
Supplied active power typical	288 W
Short-term overload current	
 on short-circuiting during the start-up typical 	30 A
 at short-circuit during operation typical 	33 A
Duration of overloading capability for excess current	
 on short-circuiting during the start-up 	100 ms
at short-circuit during operation	200 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	27 W
Closed-loop control	

Dynamic mains compensation (Vin rated ±15 %),	0.3 %
max.	

Dynamic load smoothing (lout: 50/100/50 %), Uout ±	1 %
typ.	
Load step setting time 50 to 100%, typ.	0.2 ms
Load step setting time 100 to 50%, typ.	0.2 ms
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Protection and monitoring	
Output overvoltage protection	< 33 V
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Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation	12.5 13.5 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value	
● typical	16 A
Overload/short-circuit indicator	-

Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN
	50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	0.8 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259,
	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1, UL 1604)
Explosion protection	ATEX (EX) II 3G Ex nA II T4; UL 1604 Class I, Div. 2, Group
	ABCD
FM approval	
CB approval	Yes
Marine approval	ABS, GL
Degree of protection (EN 60529)	IP20

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

Operating data	
Ambient temperature	
 during operation 	0 60 °C
— Note	with natural convection
during transport	-40 +85 °C
during storage	-40 +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+, M: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	-
Width of the enclosure	70 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.	0.75 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	1 460 803 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)