SIEMENS

Product data sheet 6EP1333-2BA01



SITOP SMART 120 W STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/5 A PFC VERSION

Technical specifications	
Product	SITOP smart
Power supply, type	24 V/5 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Voltage range	
• Note	Set by means of selector switch on the device
Input voltage / 1 / at AC	85 132 V
Input voltage / 2 / at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 x Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms
Mains buffering	at Vin = 93/187 V
Rated line frequency	50 / 60 Hz
Rated line range	47 63 Hz
Input current / at nominal level of the input voltage 120 V	2.1 A
Input current / at nominal level of the input voltage 230 V	1.15 A
Switch-on current limiting (+25 °C), max.	32 A
Duration of current limiting / at 25 °C / typical	3 ms

I²t, 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 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 feature / 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	5 A
Current range	0 6 A
• Note	6 A up to +45 °C
delivered active power / typ.	144 W
short-term overload current / at short-circuit during run-up / typical	17 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	100 ms
short-term overload current / at short-circuit during operation / typical	17 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	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.	87 %
Power loss at Vout rated, lout rated, approx.	17 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
	0.0
Load step setting time 50 to 100%, typ.	0.2 ms

Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation	6.4 6.6 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / typical	10 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.4 mA
CE mark	Yes
UL/CSA approval	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	GL
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 / in operation	0 60 °C
• Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / in 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
Connections / Output	L+, M: 2 screw terminals each for 0.5 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	50 mm

Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	50 mm
Mounting height	225 mm
Weight, approx.	0.5 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of mounting / standard rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung:

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