SIEMENS

Product data sheet 6EP1332-1SH52

LOGO!POWER 24 V STABILIZED POWER SUPPLY INPUT: 100-240 V AC OUTPUT: 24 V/4 A DC

Technical specifications	
Product	LOGO!Power
Power supply, type	24 V/4 A
Input	
Input	1-phase AC
Voltage range	85 V … 264 V
Input voltage / at DC	110 V … 300 V
Wide-range input	Yes
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at Iout rated, min.	40 ms
Mains buffering	at Vin = 187 V
Rated line frequency	50 Hz / 60 Hz
Rated line range	47 Hz ... 63 Hz
Input current / at nominal level of the input voltage 120 V	1.95 A
Input current / at nominal level of the input voltage 230 V	0.97 A
Switch-on current limiting (+25 °C), max.	30 A
Inrush current A^2s	2.5 $A^2 \cdot s$
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A, characteristic B or from 10 A, characteristic C
Output	

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Output	controlled, isolated DC voltage
Rated voltage	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	1.5 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
Adjustment range	22.2 V … 26.4 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	15 ms
Rated current value Iout rated	4 A
Current range	0 A … 4 A
• Note	4 A up to +55 °C, 2.8 A up to +70 °C
delivered active power / typ.	96 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	89 %
Power loss at Vout rated, Iout rated, approx.	12 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ.	1.5 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	5.2 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / maximum	7.9 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes

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Potential separation	Safety extra low output voltage Vout according to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273
Explosion protection	ATEX EX II 3G Ex nA IIC T3
FM approval	Yes
FM approval	Class I Div. 2, Group A, B, C, D T4
CB approval	Yes
Marine approval	GL (ABS in process)
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 temparature / in operation	-20 °C … 70 °C
• Note	with natural convection
Ambient temparature / on transport	-40 °C … 85 °C
Ambient temparature / in storage	-40 °C … 85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm2 single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
Width / of the housing	90 mm
Height / of the housing	90 mm
Depth / of the housing	55 mm
Installation width	90 mm
Mounting height	130 mm
Weight, approx.	0.34 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of fixing / wall-mounting	No
Type of fixing / cap rail mounting	Yes
Type of attachment / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15

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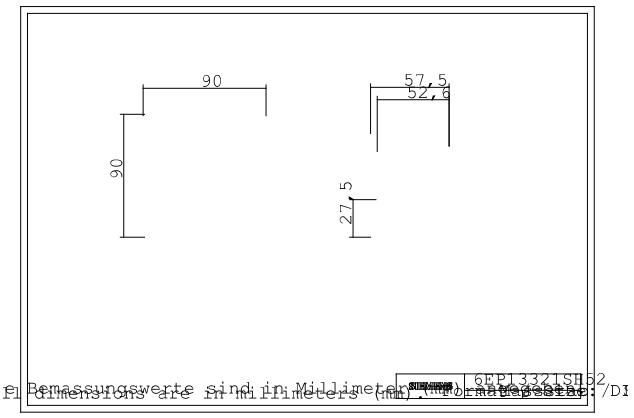

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