SIEMENS

Data sheet 6EP1334-1LD01



SITOP PSU100D/1AC/24VDC/14.6A

PSU100D 24 V/14.6 A stabilized power supply input: 100-120 V/200-240 V AC output: 24 V DC/14.6 A

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP1334-1LD01
product brand name	SITOP
product type designation	PSU100D
product designation	Power supply SITOP
type of current supply	24 V/14.6 A
input	
type of the power supply network	1-phase AC
phase number	1
voltage curve at input	AC
supply voltage 1 at AC	100 ... 120 V
supply voltage 2 at AC	200 ... 240 V
input voltage 1 at AC	90 ... 132 V
input voltage 2 at AC	180 ... 264 V
supply voltage	
● at 50 Hz	240 V
● at 60 Hz	100 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
wide range input	Yes
overvoltage overload capability	1.25 × Vin rated, 500 ms
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 115/230 V
input current	
● at rated input voltage 100 V	6.8 A
● at rated input voltage 240 V	3.4 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	4.5 $A^2 \cdot s$
fuse protection type	T10AH250V (internal)
fuse protection type in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America)
output	
voltage curve at output	Controlled, isolated DC voltage
product function output voltage controlled	Yes
product function output voltage stabilized	Yes
output voltage at DC rated value	24 V
output voltage	
● at output 1 at DC rated value	24 V

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output voltage	
● at output 1 at DC	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	21.6 ... 26.4 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	0.5 %
● on slow fluctuation of ohm loading	0.5 %
voltage peak	
● maximum	200 mV
display version for normal operation	Green LED for 24 V OK
type of signal at output	-
behavior of the output voltage when switching on	Overshoot of Vout < 10 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
● maximum	30 ms
output current	
● rated value	14.6 A
● rated range	0 ... 14.6 A; +50 ... +70 °C: Derating 2.0%/K
supplied active power typical	350 W
bridging of equipment	No
efficiency	
efficiency in percent	87 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	46.8 W
closed-loop control	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	10 %
setting time	
● load step 50 to 100% typical	20 ms
● load step 100 to 50% typical	20 ms
protection and monitoring	
design of the overvoltage protection	< 33.6 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	16.06 ... 25.55 A
enduring short circuit current RMS value	
● typical	9 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
● maximum	0.75 mA
EMC	
standard	
● for emitted interference	EN 55032 Class B
● for mains harmonics limitation	No
● for interference immunity	EN 55035
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 62368-1, CSA C22.2 NO 62368-1-14), File E151273
● UKCA marking	Yes
● EAC approval	No
● NEC Class 2	No
type of certification	

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● BIS	Yes; R-61003204
● CB-certificate	Yes
MTBF at 25 °C	700 000 h; according to SR-332, 100% full load (24 V, 14.6 A), input voltage: 115 V / 230 V AC
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ATEX	No
● ULhazloc approval	No
● FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● Det Norske Veritas (DNV)	No
● Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	1 480.9 kg
● during manufacturing	16.6 kg
● during operation	1 463.7 kg
● after end of life	0.25 kg
ambient conditions	
ambient temperature	
● during operation	-25 ... +70 °C; with forced convection (ventilator); The device is not recommended to be placed on low thermal conductive surface (e. g. plastics).
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
relative humidity with condensation according to IEC 60068-2-38 maximum	20 ... 90% without condensation
connection method	
type of electrical connection	screw terminal
● at input	L, N, PE: 1 screw terminal each for 0.75 ... 2 mm² single-core/finely stranded
● at output	+, -: 3 screw terminals each for 0.75 ... 2 mm²
● for auxiliary contacts	-
mechanical data	
width × height × depth of the enclosure	115 × 30 × 215 mm
fastening method	Wall mounting
● DIN-rail mounting	No
● S7 rail mounting	No
● wall mounting	Yes
net weight	0.84 kg
further information internet links	
internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: power supplies	https://siemens.com/sitop
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible

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Classifications

	Version	Classification
eClass	16	27-04-07-01
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

Environmental Product Declaration

● global warming potential [CO2 eq] / during manufacturing	16.6 kg
● global warming potential [CO2 eq] / during operation	1463.7 kg
● global warming potential [CO2 eq] / after end of life	0.25 kg
● global warming potential [CO2 eq] / total	1480.9 kg

Environment	General Product Approval				
EPD	Manufacturer Declaration	UKCA	CE EG-Konf.	China RoHS	Declaration of Conformity

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