

Siemens
EcoTech



LOGO!Power/1AC/12VDC/0.9A

LOGO!POWER 12 V / 0.9 A stabilized power supply input: 100-240 V AC output: 12 V DC/ 0.9 A

General information

Technical Product Detail Page

<https://i.siemens.com/1P6EP3320-6SB00-0AY0>

input

type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage at DC	110 ... 300 V
wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at $V_{in} = 187$ V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	0.3 A
• at rated input voltage 230 V	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I ² t value maximum	0.8 A ² ·s
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

output

voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
output voltage adjustable	No
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	

<ul style="list-style-type: none"> • maximum 	200 mV
<ul style="list-style-type: none"> • typical 	30 mV
voltage peak	
<ul style="list-style-type: none"> • maximum 	300 mV
<ul style="list-style-type: none"> • typical 	50 mV
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
<ul style="list-style-type: none"> • typical 	100 ms
output current	
<ul style="list-style-type: none"> • rated value 	0.9 A
<ul style="list-style-type: none"> • rated range 	0 ... 0.9 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	10.8 W
bridging of equipment	No
efficiency	
efficiency in percent	78 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	3 W
<ul style="list-style-type: none"> • during no-load operation maximum 	0.3 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
<ul style="list-style-type: none"> • load step 10 to 90% typical 	1 ms
<ul style="list-style-type: none"> • load step 90 to 10% typical 	1 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
<ul style="list-style-type: none"> • typical 	1.3 A
overcurrent overload capability	
<ul style="list-style-type: none"> • when switching on 	150% Iout rated typ. 200 ms
<ul style="list-style-type: none"> • in normal operation 	overload capability 150% Iout rated typ. 200 ms
enduring short circuit current RMS value	
<ul style="list-style-type: none"> • maximum 	1.3 A
measuring point for output current	No
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 II (without protective conductor)
protection class IP	IP20
EMC	
standard	
<ul style="list-style-type: none"> • for emitted interference 	EN 55022 Class B
<ul style="list-style-type: none"> • for mains harmonics limitation 	not applicable
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UL approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
<ul style="list-style-type: none"> • EAC approval 	Yes
<ul style="list-style-type: none"> • NEC Class 2 	Yes; according to UL1310, File E151273
<ul style="list-style-type: none"> • SEMI F47 	Yes
type of certification	

<ul style="list-style-type: none"> • CB-certificate 	Yes
MTBF at 40 °C	3 793 080 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
<ul style="list-style-type: none"> • ATEX 	No
<ul style="list-style-type: none"> • ULhazloc approval 	No
<ul style="list-style-type: none"> • FM registration 	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> • French marine classification society (BV) 	Yes
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	Yes
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	83.3 kg
<ul style="list-style-type: none"> • during manufacturing 	1.3 kg
<ul style="list-style-type: none"> • during operation 	81.9 kg
<ul style="list-style-type: none"> • after end of life 	0.05 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +70 °C; with natural convection
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	screw terminal
<ul style="list-style-type: none"> • at input 	L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded
<ul style="list-style-type: none"> • at output 	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²
<ul style="list-style-type: none"> • for auxiliary contacts 	-
mechanical data	
width × height × depth of the enclosure	18 × 90 × 53 mm
installation width × mounting height	18 mm × 130 mm
required spacing	
<ul style="list-style-type: none"> • top 	20 mm
<ul style="list-style-type: none"> • bottom 	20 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
<ul style="list-style-type: none"> • DIN-rail mounting 	Yes
<ul style="list-style-type: none"> • S7 rail mounting 	No
<ul style="list-style-type: none"> • wall mounting 	Yes
housing can be lined up	Yes
net weight	0.07 kg
further information internet links	
internet link	
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to web page: power supplies 	https://siemens.com/sitop
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> • 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

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Classifications

	Version	Classification
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 1.3 kg
- global warming potential [CO2 eq] / during operation 81.9 kg
- global warming potential [CO2 eq] / after end of life 0.05 kg
- global warming potential [CO2 eq] / total 83.3 kg

Environment

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)

General Product Approval



[China RoHS](#)



Maritime application



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