



LOGO!Power/1AC/24VDC/2.5A

LOGO!POWER 24 V / 2.5 A stabilized power supply input: 100-240 V AC output: 24 V DC/ 2.5 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP3332-6SB00-0AY0>

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	1.22 A
• at rated input voltage 230 V	0.66 A
current limitation of inrush current at 25 °C maximum	52 A
I <sup>2</sup> t value maximum	3 A <sup>2</sup> ·s
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	22.2 ... 26.4 V
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"> <li>• maximum</li> </ul>	200 mV
<ul style="list-style-type: none"> <li>• typical</li> </ul>	30 mV
voltage peak	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	300 mV
<ul style="list-style-type: none"> <li>• typical</li> </ul>	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"> <li>• typical</li> </ul>	100 ms
output current	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	2.5 A
<ul style="list-style-type: none"> <li>• rated range</li> </ul>	0 ... 2.5 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	60 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
<b>efficiency</b>	
efficiency in percent	89.6 %
power loss [W]	
<ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> </ul>	7 W
<ul style="list-style-type: none"> <li>• during no-load operation maximum</li> </ul>	0.3 W
<b>closed-loop control</b>	
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	2 %
setting time	
<ul style="list-style-type: none"> <li>• load step 10 to 90% typical</li> </ul>	1 ms
<ul style="list-style-type: none"> <li>• load step 90 to 10% typical</li> </ul>	1 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	Yes, according to EN 60950-1
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
<ul style="list-style-type: none"> <li>• typical</li> </ul>	3.2 A
overcurrent overload capability	
<ul style="list-style-type: none"> <li>• when switching on</li> </ul>	150% Iout rated typ. 200 ms
<ul style="list-style-type: none"> <li>• in normal operation</li> </ul>	overload capability 150% Iout rated typ. 200 ms
enduring short circuit current RMS value	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3.2 A
measuring point for output current	Yes; 50 mV $\Rightarrow$ 2.5 A
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class II (without protective conductor)
protection class IP	IP20
<b>EMC</b>	
standard	
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 55022 Class B
<ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>	not applicable
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	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"> <li>• EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• NEC Class 2</li> </ul>	Yes; according to UL1310, File E151273

• SEMI F47	Yes
type of certification	
• BIS	Yes; R-41188271
• CB-certificate	Yes
MTBF at 40 °C	2 864 520 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• FM registration	No
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	Yes
<b>standards, specifications, approvals Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	195.3 kg
• during manufacturing	3.8 kg
• during operation	191.4 kg
• after end of life	0.14 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
<b>ambient conditions</b>	
ambient temperature	
• during operation	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>	
type of electrical connection	screw terminal
• at input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>
• for auxiliary contacts	-
<b>mechanical data</b>	
width × height × depth of the enclosure	54 × 90 × 53 mm
installation width × mounting height	54 mm × 130 mm
required spacing	
• top	20 mm
• bottom	20 mm
• left	0 mm
• right	0 mm
fastening method	Snap onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	Yes
housing can be lined up	Yes
net weight	0.2 kg
<b>further information internet links</b>	
internet link	
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: power supplies	<a href="https://siemens.com/sitop">https://siemens.com/sitop</a>
• to website: CAX-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

## 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

### General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



EG-Konf.

### General Product Approval

[China RoHS](#)



[Miscellaneous](#)

[BIS CRS](#)



### Maritime application



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