



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  |  |

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|---|--|
| <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   |

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| <ul style="list-style-type: none"> <li>SEMI F47</li> </ul>                                      | Yes   |
| type of certification   |   |
| <ul style="list-style-type: none"> <li>BIS</li> </ul>   | Yes; R-41188271   |
| <ul style="list-style-type: none"> <li>CB-certificate</li> </ul>                                | Yes   |
| MTBF at 40 °C   | 2 864 520 h   |
| <b>standards, specifications, approvals hazardous environments</b>                              |   |
| certificate of suitability  |   |
| <ul style="list-style-type: none"> <li>IECEX</li> </ul>   | No  |
| <ul style="list-style-type: none"> <li>ATEX</li> </ul>  | No  |
| <ul style="list-style-type: none"> <li>ULhazloc approval</li> </ul>                             | No  |
| <ul style="list-style-type: none"> <li>FM registration</li> </ul>                               | No  |
| <b>standards, specifications, approvals marine classification</b>                               |   |
| shipbuilding approval   | Yes   |
| Marine classification association   |   |
| <ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul> | Yes   |
| <ul style="list-style-type: none"> <li>French marine classification society (BV)</li> </ul>     | Yes   |
| <ul style="list-style-type: none"> <li>Det Norske Veritas (DNV)</li> </ul>                      | Yes   |
| <ul style="list-style-type: none"> <li>Lloyds Register of Shipping (LRS)</li> </ul>             | Yes   |
| <b>standards, specifications, approvals Environmental Product Declaration</b>                   |   |
| Environmental Product Declaration   | Yes   |
| global warming potential [CO2 eq]   |   |
| <ul style="list-style-type: none"> <li>total</li> </ul>   | 195.3 kg  |
| <ul style="list-style-type: none"> <li>during manufacturing</li> </ul>                          | 3.8 kg  |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                              | 191.4 kg  |
| <ul style="list-style-type: none"> <li>after end of life</li> </ul>                             | 0.14 kg   |
| Siemens Eco Profile (SEP)   | Siemens EcoTech   |
| <b>ambient conditions</b>   |   |
| ambient temperature   |   |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                              | -25 ... +70 °C; with natural convection   |
| <ul style="list-style-type: none"> <li>during transport</li> </ul>                              | -40 ... +85 °C  |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>                                | -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  |
| <ul style="list-style-type: none"> <li>at input</li> </ul>                                      | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded |
| <ul style="list-style-type: none"> <li>at output</li> </ul>                                     | +, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>                             |
| <ul style="list-style-type: none"> <li>for auxiliary contacts</li> </ul>                        | -   |
| <b>mechanical data</b>  |   |
| width × height × depth of the enclosure   | 54 × 90 × 53 mm   |
| installation width × mounting height  | 54 mm × 130 mm  |
| required spacing  |   |
| <ul style="list-style-type: none"> <li>top</li> </ul>   | 20 mm   |
| <ul style="list-style-type: none"> <li>bottom</li> </ul>  | 20 mm   |
| <ul style="list-style-type: none"> <li>left</li> </ul>  | 0 mm  |
| <ul style="list-style-type: none"> <li>right</li> </ul>   | 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"> <li>DIN-rail mounting</li> </ul>                             | Yes   |
| <ul style="list-style-type: none"> <li>S7 rail mounting</li> </ul>                              | No  |
| <ul style="list-style-type: none"> <li>wall mounting</li> </ul>                                 | Yes   |
| housing can be lined up   | Yes   |
| net weight  | 0.2 kg  |
| <b>further information internet links</b>   |   |
| internet link   |   |
| <ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>                     | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>       |
| <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul> | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>         |
| <ul style="list-style-type: none"> <li>to web page: power supplies</li> </ul>                   | <a href="https://siemens.com/sitop">https://siemens.com/sitop</a>                       |
| <ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>              | <a href="https://siemens.com/cax">https://siemens.com/cax</a>                           |
| <ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>           | <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**

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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](#)



**General Product Approval** **Maritime application**

[China RoHS](#)



[Miscellaneous](#)

[BIS CRS](#)



**Maritime application** **Environment**



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