



SITOP PSU100C/1ACDC/24VDC/4A

SITOP PSU100C 24 V/4 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/4 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP1332-5BA10>

| input                                                                                      |                                                                                                 |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| type of the power supply network                                                           | 1-phase AC or DC                                                                                |
| supply voltage at AC                                                                       |                                                                                                 |
| • minimum rated value                                                                      | 100 V                                                                                           |
| • maximum rated value                                                                      | 230 V                                                                                           |
| • initial value                                                                            | 85 V                                                                                            |
| • full-scale value                                                                         | 264 V                                                                                           |
| input voltage at DC                                                                        | 110 ... 300 V                                                                                   |
| wide range input                                                                           | Yes                                                                                             |
| overvoltage overload capability                                                            | 2.3 × Vin rated, 1.3 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 = 230 V                                                                                  |
| line frequency                                                                             | 50/60 Hz                                                                                        |
| line frequency                                                                             | 47 ... 63 Hz                                                                                    |
| input current                                                                              |                                                                                                 |
| • at rated input voltage 100 V                                                             | 2.25 A                                                                                          |
| • at rated input voltage 230 V                                                             | 1.15 A                                                                                          |
| current limitation of inrush current at 25 °C maximum                                      | 34 A                                                                                            |
| I2t value maximum                                                                          | 3 A²·s                                                                                          |
| fuse protection type                                                                       | internal                                                                                        |
| fuse protection type in the feeder                                                         | Recommended miniature circuit breaker: from 16 A characteristic B or from 10 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                                                       | 0.2 %                                                                                           |
| residual ripple                                                                            |                                                                                                 |
| • maximum                                                                                  | 200 mV                                                                                          |
| • typical                                                                                  | 80 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>                                                               | 80 mV                                                                |
| display version for normal operation                                                                                      | Green LED for output voltage OK                                      |
| behavior of the output voltage when switching on                                                                          | Overshoot of Vout approx. 1 %                                        |
| response delay maximum                                                                                                    | 1.5 s                                                                |
| voltage increase time of the output voltage                                                                               |                                                                      |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                               | 400 ms                                                               |
| output current                                                                                                            |                                                                      |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                           | 4 A                                                                  |
| <ul style="list-style-type: none"> <li>• rated range</li> </ul>                                                           | 0 ... 4 A; +55 ... +70 °C: Derating 3%/K; at +70 °C Iout rated 2.2 A |
| supplied active power typical                                                                                             | 96 W                                                                 |
| bridging of equipment                                                                                                     | Yes; Start-up with single nominal load only                          |
| number of parallel-switched equipment resources for increasing the power                                                  | 2                                                                    |
| <b>efficiency</b>                                                                                                         |                                                                      |
| efficiency in percent                                                                                                     | 88 %                                                                 |
| power loss [W]                                                                                                            |                                                                      |
| <ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> </ul> | 13 W                                                                 |
| <ul style="list-style-type: none"> <li>• during no-load operation maximum</li> </ul>                                      | 0.75 W                                                               |
| <b>closed-loop control</b>                                                                                                |                                                                      |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical           | 0.1 %                                                                |
| 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"> <li>• load step 10 to 90% typical</li> </ul>                                           | 4 ms                                                                 |
| <ul style="list-style-type: none"> <li>• load step 90 to 10% typical</li> </ul>                                           | 4 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                                                                                        | Electronic shutdown, automatic restart                               |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                               | 4.8 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 I                                                              |
| leakage current                                                                                                           |                                                                      |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>                                                               | 3.5 mA                                                               |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                               | 0.4 mA                                                               |
| 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>                                        | EN 61000-3-2                                                         |
| <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        |
| <ul style="list-style-type: none"> <li>• EAC approval</li> </ul>                                                          | Yes                                                                  |
| <ul style="list-style-type: none"> <li>• NEC Class 2</li> </ul>                                                           | No                                                                   |
| type of certification                                                                                                     |                                                                      |
| <ul style="list-style-type: none"> <li>• CB-certificate</li> </ul>                                                        | Yes                                                                  |
| MTBF at 40 °C                                                                                                             | 2 726 727 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>     | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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>             | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>standards, specifications, approvals Environmental Product Declaration</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Environmental Product Declaration                                                                 | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| global warming potential [CO <sub>2</sub> eq]                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• total</li> </ul>                                         | 389.3 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• during manufacturing</li> </ul>                          | 6 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                              | 382.9 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• after end of life</li> </ul>                             | 0.22 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ambient conditions</b>                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ambient temperature                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                              | -20 ... +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, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• at output</li> </ul>                                     | +: 1 screw terminal for 0.5 ... 2.5 mm <sup>2</sup> ; -: 2 screw terminals 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                                                           | 52.5 × 80 × 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| installation width × mounting height                                                              | 52.5 mm × 180 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| required spacing                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• top</li> </ul>                                           | 50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• bottom</li> </ul>                                        | 50 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                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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>                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| housing can be lined up                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| net weight                                                                                        | 0.32 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>accessories</b>                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| electrical accessories                                                                            | Removable spring-type terminal 6EP1971-5BA00                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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>                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>additional information</b>                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| other information                                                                                 | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)                                                                                                                                                                                                                                                                                                                                                                            |
| <b>security information</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 | 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 | Environment |
|--------------------------|----------------------|-------------|
|--------------------------|----------------------|-------------|



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