



SITOP DC UPS Module/24VDC/6A/Serial

SITOP DC UPS module 24 V/6 A uninterruptible power supply with serial interface  
input: 24 V DC/6.85 A output: 24 V DC/6 A

| input                                                                       |                                                                                                                                                                    |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| supply voltage at DC rated value                                            | 24 V                                                                                                                                                               |
| input voltage at DC                                                         | 22 ... 29 V                                                                                                                                                        |
| adjustable response value voltage for buffer connection preset              | 22.5 V                                                                                                                                                             |
| adjustable response value voltage for buffer connection                     | 22 ... 25.5 V; Adjustable in 0.5 V increments                                                                                                                      |
| input current at rated input voltage 24 V rated value                       | 6 A; + approx. 0.6 A with empty battery                                                                                                                            |
| memory                                                                      |                                                                                                                                                                    |
| type of energy storage                                                      | with batteries                                                                                                                                                     |
| design of the mains power cut bridging-connection                           | Dependent on connected battery and load current, see selection table battery module and mains buffering times as well as the relevant important information notes! |
| output                                                                      |                                                                                                                                                                    |
| output voltage                                                              |                                                                                                                                                                    |
| • in normal operation at DC rated value                                     | 24 V                                                                                                                                                               |
| • in buffering mode at DC rated value                                       | 24 V                                                                                                                                                               |
| formula for output voltage                                                  | $V_{in} - \text{approx. } 0.5 \text{ V}$                                                                                                                           |
| startup delay time typical                                                  | 1 s                                                                                                                                                                |
| voltage increase time of the output voltage typical                         | 60 ms                                                                                                                                                              |
| output voltage in buffering mode at DC                                      | 19 ... 28.5 V                                                                                                                                                      |
| output current                                                              |                                                                                                                                                                    |
| • rated value                                                               | 6 A                                                                                                                                                                |
| • in normal operation                                                       | 0 ... 6 A                                                                                                                                                          |
| • in buffering mode                                                         | 0 ... 6 A                                                                                                                                                          |
| peak current                                                                | 6.3 A                                                                                                                                                              |
| property of the output short-circuit proof                                  | Yes                                                                                                                                                                |
| charging current                                                            | 0.2 A, 0.4 A; factory setting approx. 0.4 A                                                                                                                        |
| efficiency                                                                  |                                                                                                                                                                    |
| efficiency in percent                                                       |                                                                                                                                                                    |
| • at rated output voltage for rated value of the output current typical     | 95 %                                                                                                                                                               |
| • in case of operation on rechargeable battery typical                      | 94.5 %                                                                                                                                                             |
| power loss [W]                                                              |                                                                                                                                                                    |
| • at rated output voltage for rated value of the output current typical     | 7 W                                                                                                                                                                |
| • in case of operation on rechargeable battery typical                      | 8 W                                                                                                                                                                |
| supplied active power typical                                               | 144 W                                                                                                                                                              |
| protection and monitoring                                                   |                                                                                                                                                                    |
| product function                                                            |                                                                                                                                                                    |
| • reverse polarity protection against energy storage unit polarity reversal | Yes                                                                                                                                                                |
| • reverse polarity protection against input voltage polarity reversal       | Yes                                                                                                                                                                |

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|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| display version                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>for normal operation</li> </ul>                          | Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A |
| <ul style="list-style-type: none"> <li>in buffering mode</li> </ul>                             | Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed                                                                                                                                                                                                                                                                                                                             |
| <b>interfaces</b>                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product component PC interface                                                                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| product function communication function                                                         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| design of the interface                                                                         | serial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>safety</b>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| galvanic isolation between input and output                                                     | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| operating resource protection class                                                             | Class III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| protection class IP                                                                             | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MTBF at 40 °C                                                                                   | 966 183 h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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>Det Norske Veritas (DNV)</li> </ul>                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>                                         | 271.6 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>during manufacturing</li> </ul>                          | 20.9 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                              | 250.4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>after end of life</li> </ul>                             | 0.33 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ambient conditions</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ambient temperature                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                              | -25 ... +60 °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>                                      | 24 V DC: 2 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>at output</li> </ul>                                     | 24 V DC: 4 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>for rechargeable battery module</li> </ul>               | 24 V DC: 2 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>for control circuit and status message</li> </ul>        | 10 screw terminals for 0.5 ... 2.5 mm <sup>2</sup> /20 ... 13 AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mechanical data</b>                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| width × height × depth of the enclosure                                                         | 50 × 125 × 125 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| installation width × mounting height                                                            | 50 × 225 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <ul style="list-style-type: none"> <li>• standard rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>                                                                                                                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| housing can be lined up                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| net weight                                                                                                                                                                                                                                                                        | 0.45 kg                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>accessories</b>                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| electrical accessories                                                                                                                                                                                                                                                            | Battery module                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>further information internet links</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| internet link                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://siemens.com/industrial-communication">https://siemens.com/industrial-communication</a><br><a href="https://siemens.com/cax">https://siemens.com/cax</a><br><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)                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>security information</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| security information        | <p>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 for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p> |

| Classifications |        |         |                |
|-----------------|--------|---------|----------------|
|                 |        | Version | Classification |
|                 | eClass | 14      | 27-04-07-05    |
|                 | eClass | 12      | 27-04-07-05    |
|                 | eClass | 9.1     | 27-04-07-05    |
|                 | eClass | 9       | 27-04-07-05    |
|                 | eClass | 8       | 27-04-06-90    |
|                 | eClass | 7.1     | 27-04-06-90    |
|                 | eClass | 6       | 27-04-06-90    |
|                 | ETIM   | 9       | EC000382       |
|                 | ETIM   | 8       | EC000382       |
|                 | ETIM   | 7       | EC000382       |
|                 | IDEA   | 4       | 4149           |
|                 | UNSPSC | 15      | 39-12-10-11    |

|                               |                   |
|-------------------------------|-------------------|
| <b>Approvals Certificates</b> |                   |
| General Product Approval      | Marine / Shipping |



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[Miscellaneous](#)



|                   |             |
|-------------------|-------------|
| Marine / Shipping | Environment |
|-------------------|-------------|



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last modified:

6/24/2024 