



SITOP UPS501S/5KWS/Expansion Module/EX

SITOP UPS501S EX expansion module 5 kW for UPS500S (2.5 kW, 5 kW)  
degree of protection IP20

| memory                                                                                            |                                      |
|---------------------------------------------------------------------------------------------------|--------------------------------------|
| type of energy storage                                                                            | with capacitors                      |
| energy content of energy storage                                                                  | 5 kW.s                               |
| protection and monitoring                                                                         |                                      |
| display version                                                                                   | -                                    |
| <ul style="list-style-type: none"> <li>for normal operation</li> </ul>                            | -                                    |
| interfaces                                                                                        |                                      |
| product component PC interface                                                                    | No                                   |
| product function communication function                                                           | No                                   |
| design of the interface                                                                           | without                              |
| safety                                                                                            |                                      |
| operating resource protection class                                                               | Class III                            |
| protection class IP                                                                               | IP20                                 |
| standards, specifications, approvals                                                              |                                      |
| 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                                  |
| <ul style="list-style-type: none"> <li>CSA approval</li> </ul>                                    | Yes                                  |
| <ul style="list-style-type: none"> <li>UKCA marking</li> </ul>                                    | Yes                                  |
| MTBF at 40 °C                                                                                     | 350 000 h                            |
| standards, specifications, approvals hazardous environments                                       |                                      |
| certificate of suitability                                                                        |                                      |
| <ul style="list-style-type: none"> <li>IECEX</li> </ul>                                           | Yes                                  |
| <ul style="list-style-type: none"> <li>ATEX</li> </ul>                                            | Yes; ATEX (Ex) II 3G Ex ec IIC T4 Gc |
| <ul style="list-style-type: none"> <li>cCSAus, Class 1, Division 2</li> </ul>                     | Yes                                  |
| <ul style="list-style-type: none"> <li>CCC for hazardous zone according to GB standard</li> </ul> | Yes                                  |
| standards, specifications, approvals marine classification                                        |                                      |
| shipbuilding approval                                                                             | No                                   |
| Marine classification association                                                                 |                                      |
| <ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>   | No                                   |
| <ul style="list-style-type: none"> <li>Det Norske Veritas (DNV)</li> </ul>                        | No; in preparation                   |
| standards, specifications, approvals Environmental Product Declaration                            |                                      |
| Environmental Product Declaration                                                                 | Yes                                  |
| global warming potential [CO2 eq]                                                                 |                                      |
| <ul style="list-style-type: none"> <li>total</li> </ul>                                           | 20.2 kg                              |
| <ul style="list-style-type: none"> <li>during manufacturing</li> </ul>                            | 11.1 kg                              |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                                | 8.7 kg                               |
| <ul style="list-style-type: none"> <li>after end of life</li> </ul>                               | 0.21 kg                              |
| ambient conditions                                                                                |                                      |
| ambient temperature                                                                               |                                      |

|                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>                                                                                                                                           | 0 ... 60; with natural convection<br>-40 ... +70<br>-40 ... +70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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 output</li> </ul>                                                                                                                                                                                                    | can be connected to SITOP UPS500S via a plug-in system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mechanical data</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| width × height × depth of the enclosure                                                                                                                                                                                                                        | 70 × 125 × 125 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| installation width × mounting height                                                                                                                                                                                                                           | 70 mm × 225 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| required spacing                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>                                                                                                                                                             | 50 mm<br>50 mm<br>0 mm<br>0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| fastening method                                                                                                                                                                                                                                               | Snaps onto DIN rail EN 60715 35x7.5/15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>DIN-rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul>                                                                                                                                           | Yes<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| housing can be lined up                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| net weight                                                                                                                                                                                                                                                     | 0.7 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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 web page: power supplies</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/sitop">https://siemens.com/sitop</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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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> |

| <b>Classifications</b> |        |                |                       |
|------------------------|--------|----------------|-----------------------|
|                        |        | <b>Version</b> | <b>Classification</b> |
|                        | 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   | 10             | EC000382              |
|                        | ETIM   | 9              | EC000382              |
|                        | ETIM   | 8              | EC000382              |

## Approvals Certificates

General Product Approval

For use in hazardous locations

[Manufacturer Declaration](#)[CCC-Ex](#)

For use in hazardous locations

Maritime application

Environment



last modified:

8/7/2025 