



SITOP UPS1600/DC/24VDC/10A/IE/PN

SITOP UPS1600 10 A Ethernet/ PROFINET uninterruptible power supply with Ethernet/ PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/10 A

| input                                                                       |                                                                                                                                |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| supply voltage at DC rated value                                            | 24 V                                                                                                                           |
| input voltage at DC                                                         | 21 ... 29 V                                                                                                                    |
| adjustable response value voltage for buffer connection preset              | 21.5 V                                                                                                                         |
| adjustable response value voltage for buffer connection                     | 21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software                                       |
| input current at rated input voltage 24 V rated value                       | 14 A; for max. charging current (3 A)                                                                                          |
| memory                                                                      |                                                                                                                                |
| type of energy storage                                                      | with batteries                                                                                                                 |
| design of the mains power cut bridging-connection                           | Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software |
| 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                                                  | $V_{in} - \text{approx. } 0.2 \text{ V}$                                                                                       |
| startup delay time typical                                                  | 60 ms                                                                                                                          |
| voltage increase time of the output voltage typical                         | 60 ms                                                                                                                          |
| output voltage in buffering mode at DC                                      | 18.5 ... 27 V                                                                                                                  |
| output current                                                              |                                                                                                                                |
| • rated value                                                               | 10 A                                                                                                                           |
| • in normal operation                                                       | 0 ... 30 A                                                                                                                     |
| • in buffering mode                                                         | 0 ... 30 A                                                                                                                     |
| peak current                                                                | 30 A                                                                                                                           |
| property of the output short-circuit proof                                  | Yes                                                                                                                            |
| design of short-circuit protection                                          | Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min                                  |
| charging current                                                            | 0.1 A, 3 A                                                                                                                     |
| efficiency                                                                  |                                                                                                                                |
| efficiency in percent                                                       |                                                                                                                                |
| • at rated output voltage for rated value of the output current typical     | 97.3 %                                                                                                                         |
| • in case of operation on rechargeable battery typical                      | 97.3 %                                                                                                                         |
| 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                      | 7 W                                                                                                                            |
| supplied active power typical                                               | 240 W                                                                                                                          |
| protection and monitoring                                                   |                                                                                                                                |
| product function                                                            |                                                                                                                                |
| • reverse polarity protection against energy storage unit polarity reversal | Yes                                                                                                                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| <ul style="list-style-type: none"><li>reverse polarity protection against input voltage polarity reversal</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes |
| display version <ul style="list-style-type: none"><li>for normal operation</li></ul><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><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| mechanical data                         |                                        |
|-----------------------------------------|----------------------------------------|
| width × height × depth of the enclosure | 50 × 139 × 125 mm                      |
| installation width × mounting height    | 50 mm × 239 mm                         |
| required spacing                        |                                        |
| • top                                   | 50 mm                                  |
| • bottom                                | 50 mm                                  |
| • left                                  | 0 mm                                   |
| • right                                 | 0 mm                                   |
| fastening method                        | Snaps onto DIN rail EN 60715 35x7.5/15 |
| • DIN-rail mounting                     | Yes                                    |
| • S7 rail mounting                      | No                                     |
| • wall mounting                         | No                                     |
| housing can be lined up                 | Yes                                    |
| net weight                              | 0.44 kg                                |

| accessories            |                |
|------------------------|----------------|
| electrical accessories | Battery module |

| further information internet links              |                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|
| internet link                                   |                                                                                         |
| • to website: Industry Mall                     | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>       |
| • to web page: selection aid TIA Selection Tool | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>         |
| • to web page: power supplies                   | <a href="https://siemens.com/sitop">https://siemens.com/sitop</a>                       |
| • to website: CAX-Download-Manager              | <a href="https://siemens.com/cax">https://siemens.com/cax</a>                           |
| • to website: Industry Online Support           | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

| additional information |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| other information      | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

| security information |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| security information | <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   | 10      | EC000382       |
|                 | ETIM   | 9       | EC000382       |
|                 | ETIM   | 8       | EC000382       |
|                 | ETIM   | 7       | EC000382       |
|                 | IDEA   | 4       | 4149           |
|                 | UNSPSC | 15      | 39-12-10-11    |

| Approvals Certificates |
|------------------------|
|------------------------|

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



|                          |                      |       |
|--------------------------|----------------------|-------|
| General Product Approval | Maritime application | other |
|--------------------------|----------------------|-------|



[Miscellaneous](#)

|             |                          |
|-------------|--------------------------|
| Environment | Industrial Communication |
|-------------|--------------------------|



[PROFINET](#)

last modified:

4/9/2025 