



SITOP UPS1600 24V/10A ETHERN./PROFIN.
 SITOP UPS1600 10A ETHERNET/ PROFINET UNINTERRUPTIBLE
 POWER SUPPLY WITH ETHERNET/PROFINET INTER- FACE
 INPUT: 24 V DC OUTPUT: 24 V DC/10 A

Input	
Supply voltage for DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22 ... 29 V DC
Mains buffering	
Type of energy storage	with batteries
Charging current	
• 1	0.1 A
• 2	3 A
Output	
Output voltage	
• in normal operation for DC Rated value	24 V
• in buffering mode for DC Rated value	24 V
Formula for output voltage	$V_{in} - \text{approx. } 0.01 \times I$
ON-delay time typical	60 s
Voltage increase time of the output voltage typical	60 ms
Output current Rated value	10 A
Property of the output Short-circuit proof	Yes
Design of short-circuit protection	Limitation to $3 \times I$ rated for 30 ms; through-conductivity for $1.5 \times I$ rated for 5 sec/min
Active power supplied typical	240 W
Efficiency	
Efficiency in percent	

<ul style="list-style-type: none"> • at rated output current at rated output current typical 	97.7 %
<ul style="list-style-type: none"> • in case of accumulator operation typical 	97.7 %
Active power loss	
<ul style="list-style-type: none"> • at rated output current at rated output current typical 	5.6 W
<ul style="list-style-type: none"> • in case of accumulator operation typical 	5.6 W

Protection and monitoring

Product function	
<ul style="list-style-type: none"> • reverse polarity protection against energy storage unit polarity reversal 	Yes
<ul style="list-style-type: none"> • reverse polarity protection against input voltage polarity reversal 	Yes

Signaling

Display version	
<ul style="list-style-type: none"> • for normal operation 	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"> • in buffering mode 	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

Interface

Product component PC interface	Yes
Design of the interface	Ethernet/PROFINET

Safety

Galvanic isolation between entrance and outlet	No
Operating resource protection class	Class III
Certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UL approval 	Yes
<ul style="list-style-type: none"> • as approval for USA 	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul style="list-style-type: none"> • C-Tick 	Yes
Type of certification CB-certificate	Yes
Shipbuilding approval	available soon
Protection class IP	IP20

EMC

Standard

- for emitted interference EN 55022 Class B
- for interference immunity EN 61000-6-2

Operating data

Ambient temperature

- during operation -25 ... +70 °C
- during transport -40 ... +85 °C
- during storage -40 ... +85 °C

Mechanics

Type of electrical connection

- at input screw-type terminals
24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
- at output 24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
- for battery module 24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
- for control circuit and status message 14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG

Width of the enclosure

50 mm

Height of the enclosure

125 mm

Depth of the enclosure

125 mm

Required spacing

- top 50 mm
- bottom 50 mm
- left 0 mm
- right 0 mm

Net weight

0.44 kg

Product property of the enclosure housing for side-by-side mounting

Yes

Mounting type

Snaps onto DIN rail EN 60715 35x7.5/15

Electrical accessories

Battery module

Other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)