

SITOP UPS8600  
 SITOP UPS8600 UPS module for PSU8600 nominal voltage: DC 48 V  
 V buffer power: 960 W charging power: 120 W



Mains buffering	
Type of energy storage	External battery module
Design of the mains power cut bridging-connection	Buffer time limit 1 ... 88 min. can be set with DIP switches or until the connected battery modules are discharged
Charging current	1.25 A, 2.5 A
adjustable charging current maximum Note	Charging capacity 60 W/120 W, can be set with DIP switches
Output	
Output voltage	
• in normal operation at DC Rated value	48 V
Property of the output Short-circuit proof	Yes
Supplied active power typical	960 W
Efficiency	
Efficiency in percent	
• in case of accumulator operation typical	99 %
Power loss [W]	
• in case of accumulator operation typical	10 W
Protection and monitoring	
Product function	

- reverse polarity protection against energy storage unit polarity reversal

Yes

## Signaling

Display version

- for normal operation
- in buffering mode

Three-color LED for operating state of module, three-color LED for status of battery circuit  
LED green for "buffer standby exist"  
LED yellow for "buffered mode"

## Interface

Design of the interface

Ethernet/PROFINET via power supply unit PSU8600

## Safety

Operating resource protection class

Class III

Certificate of suitability

- CE marking
- as approval for USA
- relating to ATEX

Yes  
cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;  
cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  
IECEX Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc;  
cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4

Type of certification CB-certificate

Yes

Shipbuilding approval

DNV GL and ABS in process

Protection class IP

IP20

## EMC

Standard

- for emitted interference
- for interference immunity

EN 55022 Class B  
EN 61000-6-2

## environmental conditions

Ambient temperature

- during operation
- during transport
- during storage

-25 ... +70 °C; with natural convection  
-40 ... +85 °C  
-40 ... +85 °C

Environmental category acc. to IEC 60721

Climate class 3K3, 5 ... 95% no condensation

## Mechanics

Type of electrical connection

- for battery module

Plug-in terminals with screwed connection  
+, -: Plug-in terminal with 1 screwed connection each for 0.2 ... 10 mm<sup>2</sup>

Type of connection to system components

Via integrated connector

Width of the enclosure

60 mm

Height of the enclosure

125 mm

Depth of the enclosure

150 mm

Required spacing

- top

50 mm

<ul style="list-style-type: none"> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	50 mm
	0 mm
	0 mm
Net weight	0.9 kg
Product feature of the enclosure housing for side-by-side mounting	Yes
Mounting type	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Battery module BAT8600
Mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	405 763 h
Reference code acc. to DIN EN 81346-2	T
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)