SIEMENS

Data sheet



SITOP UPS1600/DC/24VDC/10A

SITOP UPS1600 10 A uninterruptible power supply input: 24 V DC output: 24 V DC/ 10 A *Ex approval no longer available*

nput	
supply voltage at DC rated value	24 V
voltage curve at input	DC
input voltage range	21 29 V DC
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
input current at rated input voltage 24 V rated value	14 A; for max. charging current (3 A)
Mains buffering	
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
charging current	0.1 A, 3 A
adjustable charging current maximum note	Automatically depending on battery module
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	Vin - approx. 0.2 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 sec/min
supplied active power typical	240 W
Efficiency	
efficiency in percent	
 at rated output voltage for rated value of the output current typical 	97.5 %
 in case of operation on rechargeable battery typical 	97.5 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	6 W
 in case of operation on rechargeable battery typical 	6 W
Protection and monitoring	
product function	

Prevente publishy protection against inergy storage unit polarity prevental Everyors potenty protection against input vortage potanty reversal Everyors potenty protection against input vortage potanty reversal Signature		
display version for normal operation for normal operation (NC), floating changeover contact 'Namina's to setting 'Namin', Enterty LED real (alam), loading changeover contact 'Namina's to setting 'Namin', Enterty LED real (alam), loading changeover contact 'Otenat', Bath Set' observed for normal operation on the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation on the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation on the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation on the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation of the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation on the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation of the setting 'Namin', Storage of the setting 'Namin', Enterty storage > 58%, LED fileration for normal operation of the setting 'Namin', Storage of the setting 'Namina', Storage of the settin		Yes
display version • for normal operation • in buffering mode • in buffering mode • in buffering mode • in buffering mode • for buffering mode • f		Yes
Interface	Signaling	
setting "OK" (**OK* masis: Voltage of the supplying power supply: LED table out than out in thresholds et at the DE UPS module; LED fred (alarm), floating sharpeover cortact "Alarm Earl "o setting" Valent". Battery or an experience contact "Alarm Earl "o setting "Valent". Battery or an experience contact "Alarm Earl "o setting "Valent". Battery or an experience contact "Alarm Earl "o setting "Valent". Battery or an experience contact "Alarm Earl "o setting "Valent". Battery or an experience contact "Alarm Earl "o setting "Valent". Battery or an experience contact "Valent Earl "o setting "Valent". Battery or an experience contact "Valent Earl "o setting "Valent". Battery or an experience contact "Valent Earl "o setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valence "20 A VOLD "Earl or setting "Valent". Battery valent "Alarm Earl "Valent". Battery valent "Valent	display version	
product component PC interface without Starty galvanic isolation between input and output particular of the interface without Starty galvanic isolation between input and output particular of starty in the particular of the enclosure of the particular of the enclosure of the	● in buffering mode	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 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
design of the interface Safety Safety galvanic isolation between input and output No operating resource protection class protection class IP IP20 Approvals certificate of suitability CE marking UL approval LU approval EC SAus Class 1, Division 2 ATEX No CSAus, Class 1, Division 2 ATEX No Ves CETIfication CB-certificate CETIfication CB-certificate CETICA Shipbuilding approval ABS, DNV GL Marine classification association American Bureau of Shipping Europe Ltd. (ABS) DNV GL EMC EMC EMC Standard For emitted interference For interference immunity during porarol during transport during storage virunder actions according to IEC 60721 Mechanics Itype of electrical connection e at input e at output at output Serve Herminals CEC 90 mm Somm Somm LEC 90 mm Somm Serve-lype terminals sor 0.2 6 mm/24 13 AWG at output for control circuit and status message 14 screw terminals for 0.2 6 mm/24 13 AWG at output for control circuit and status message viton 125 mm required spacing topp for the enclosure 125 mm required spacing topp for menited indenders 126 mm 127 mm 128 mm 129 mm	Interface	
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depth of the enclosure 125 mm required spacing • top 50 mm		
required spacing ● top 50 mm		
• top 50 mm	·	125 mm
• bottom 50 mm		
	• bottom	50 mm

● left	0 mm
• right	0 mm
net weight	0.38 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Battery module
MTBF at 40 °C	415 574 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

