



SITOP DC UPS Module/24VDC/40A

SITOP DC UPS module 24 V/40 A uninterruptible power supply without interface
input: 24 V DC/43 A output: 24 V DC/40 A

General information

Technical Product Detail Page

<https://i.siemens.com/1P6EP1931-2FC21>

input

supply voltage at DC rated value	24 V
input voltage at DC	22 ... 29 V
adjustable response value voltage for buffer connection preset	22.5 V
adjustable response value voltage for buffer connection	22 ... 25.5 V; Adjustable in 0.5 V increments
input current at rated input voltage 24 V rated value	40 A; + approx. 2.6 A with empty battery

memory

type of energy storage	with batteries
design of the mains power cut bridging-connection	Dependent on connected battery and load current, see selection table battery module and mains buffering times as well as the relevant important information notes!

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	$V_{in} - \text{approx. } 0.5 \text{ V}$
startup delay time typical	1 s
voltage increase time of the output voltage typical	360 ms
output voltage in buffering mode at DC	19 ... 28.5 V
output current	
• rated value	40 A
• in normal operation	0 ... 40 A
• in buffering mode	0 ... 40 A
peak current	42 A
charging current	1 A, 2 A

efficiency

efficiency in percent	
• at rated output voltage for rated value of the output current typical	97.2 %
• in case of operation on rechargeable battery typical	96.9 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	28.6 W
• in case of operation on rechargeable battery typical	33.6 W
supplied active power typical	960 W

protection and monitoring

product function	
• reverse polarity protection against energy storage unit	Yes

polarity reversal	
reverse polarity protection against input voltage polarity reversal	Yes
display version	
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 NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
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
interfaces	
product component PC interface	No
product function communication function	No
design of the interface	without
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
for emitted interference	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
EAC approval	Yes
MTBF at 40 °C	522 739 h
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO ₂ eq]	
total	898.2 kg
during manufacturing	45.1 kg
during operation	851.8 kg
after end of life	0.84 kg
ambient conditions	
ambient temperature	
during operation	-25 ... +60 °C; with natural convection
during transport	-40 ... +85 °C
during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.33 ... 10 mm ² /22 ... 7 AWG
at output	24 V DC: 2 screw terminals for 0.33 ... 10 mm ² /22 ... 7 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.33 ... 10 mm ² /22 ... 7 AWG
for control circuit and status message	10 screw terminals for 0.5 ... 2.5 mm ² /20 ... 13 AWG
mechanical data	
width × height × depth of the enclosure	102 × 125 × 125 mm
installation width × mounting height	102 mm × 225 mm
required spacing	
top	50 mm

• bottom • left • right	50 mm 0 mm 0 mm		
fastening method • DIN-rail mounting • S7 rail mounting • wall mounting	Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No		
housing can be lined up	Yes		
net weight	1.1 kg		
accessories			
electrical accessories	Battery module		
further information internet links			
internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAX-Download-Manager • to website: Industry Online Support	https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop https://siemens.com/cax https://support.industry.siemens.com		
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
security information			
security information	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 www.siemens.com/cybersecurity-industry . 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 https://www.siemens.com/cert . (V4.7)		
Classifications			
		Version	Classification
	eClass	16	27-04-07-05
	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](#)



[China RoHS](#)



[Miscellaneous](#)

Maritime application

Environment



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