

SIPLUS PS DC-USV 24V/15A
 SIPLUS PS DC-USV 24V/15A -25 ... + 60 DEGREES C BASED ON
 6EP1931-2EC21



Figure similar

Input	
Supply voltage at DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22 ... 29 V DC
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	15 A; + approx. 1 A with empty battery
Mains buffering	
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!
Charging current	
• 1	0.35 A
• 2	0.7 A
adjustable charging current maximum Note	factory setting approx. 0.7 A

Output	
Output voltage	
<ul style="list-style-type: none"> • in normal operation at DC Rated value • in buffering mode at DC Rated value 	24 V
Formula for output voltage	Vin - approx. 0.5 V
ON-delay time typical	1 s
Voltage increase time of the output voltage typical	60 ms
Output voltage in buffering mode at DC	19 ... 28.5 V
Output current	
<ul style="list-style-type: none"> • Rated value • in normal operation • in buffering mode 	15 A
Peak current	15.7 A
Property of the output Short-circuit proof	Yes
Supplied active power typical	360 W

Efficiency	
Efficiency in percent	
<ul style="list-style-type: none"> • at rated output current at rated output current typical • in case of accumulator operation typical 	96.2 %
Power loss [W]	
<ul style="list-style-type: none"> • at rated output current at rated output current typical • in case of accumulator operation typical 	14 W
	15 W

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

- 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	No
Design of the interface	without

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 • as approval for USA • relating to ATEX • C-Tick 	Yes cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 - No
Shipbuilding approval	GL
Protection class IP	IP20

EMC	
Standard <ul style="list-style-type: none"> • for emitted interference • for interference immunity 	EN 55022 Class B EN 61000-6-2

Operating data	
Ambient temperature <ul style="list-style-type: none"> • during operation • during transport • during storage 	-25 ... +60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
Environmental category acc. to IEC 60721	Climate class 3K6
Relative humidity with condensation maximum	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3B2 mold and fungal spores (except fauna); the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to chemically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3C4 incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Conformity with EN 60721-3-3, Class 3S4 incl. Sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Mechanics	
Type of electrical connection	screw-type terminals

<ul style="list-style-type: none"> • at input • at output • for battery module • for control circuit and status message 	<p>24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG</p> <p>24 V DC: 4 screw terminals for 1 ... 4 mm²/17 ... 11 AWG</p> <p>24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG</p> <p>10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG</p>
Width of the enclosure	50 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
Net weight	0.4 kg
Product feature 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
MTBF at 40 °C	791 139 h
Equipment marking acc. to DIN EN 81346-2	T
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)