Data sheet



Figure similar

SIPLUS DC-USV-MODUL 24V/40A SIPLUS PS DC UPS module 24 V/40 A -25...+70 °C with conformal coating based on 6EP1931-2FC21 . Uninterruptible Power supply without interface Input: 24 V DC/43 A Output: 24 V DC/40 A

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	40 A; + approx. 2.6 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 A, 2 A
adjustable charging current maximum Note	factory setting approx. 2 A

Output

24 V
24 V
Vin - approx. 0.5 V
1 s
360 ms
19 28.5 V
40 A
0 40 A
0 40 A
42 A
960 W

Efficiency	
Efficiency in percent	
 at rated output current for rated value of the output current typical 	97.2 %
• in case of accumulator operation typical	96.9 %
Power loss [W] • at rated output current for rated value of the output current typical	28.6 W
• in case of accumulator operation typical	33.6 W

Protection and monitoring

Product function

• reverse polarity protection against energy storage unit polarity reversal

• reverse polarity protection against input voltage polarity reversal

Yes

Yes

Signaling

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 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		
CE marking	Yes	
as approval for USA	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
• relating to ATEX	-	
• C-Tick	No	
Shipbuilding approval	GL	
Protection class IP	IP20	
ENO		
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; with natural convection	
during transport	-40 +85 °C	
during storage	-40 +85 °C	
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	
comornity acc. to LIV 00721-3-3	place on the unused interfaces during operation.	
Resistance to chemically active substances	Yes; Compliant with EN 60721-3-3, Class 3C4 incl. salt spray in	
conformity acc. to EN 60721-3-3	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	Yes; Conformity with EN 60721-3-3, Class 3S4 incl. Sand, dust.	
conformity acc. to EN 60721-3-3	The supplied connector covers must remain on the unused	
	interfaces during operation!	
Mechanics		
Type of electrical connection	screw-type terminals	
• at input	24 V DC: 2 screw terminals for 0.33 10 mm²/22 7 AWG	

• at output	24 V DC: 2 screw terminals for 0.33 10 mm²/22 7 AWG
 for battery module 	24 V DC: 2 screw terminals for 0.33 10 mm²/22 7 AWG
 for control circuit and status message 	10 screw terminals for 0.5 2.5 mm²/20 13 AWG
Width of the enclosure	102 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	1.1 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	522 739 h
Reference code acc. to DIN EN 81346-2	Т
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)