## **SIEMENS**

## Data sheet

## 6AG1931-2EC21-2AA0

SIPLUS PS DC-USV 24V/15A SIPLUS PS DC-UPS 24 V/15 A -25...+60°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	0.35 A, 0.7 A	
adjustable charging current maximum note	factory setting approx. 0.7 A	

Output



output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	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	
rated value	15 A
<ul> <li>in normal operation</li> </ul>	0 15 A
• in buffering mode	0 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> <li>at rated output current for rated value of the output current typical</li> </ul>	96.2 %
<ul> <li>in case of accumulator operation typical</li> </ul>	96 %
power loss [W]	
<ul> <li>at rated output current for rated value of the output current typical</li> </ul>	14 W
<ul> <li>in case of accumulator operation typical</li> </ul>	15 W
Protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes
<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
Signaling	
display version	
<ul> <li>for normal operation</li> </ul>	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

## Ö PNAP

• 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
protection class IP	IP20
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature in horizontal mounting position	-25 +60; with natural convection
during operation	
ambient temperature during storage and transport	-40 +85
installation altitude at height above sea level	6 000 m
maximum	
ambient condition relating to ambient temperature -	In case of operation at altitudes of 2000 - 6000 m above sea level:
air pressure - installation altitude	Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
relative humidity with condensation acc. to IEC	100 %; RH incl. condensation/frost (no commissioning if
60068-2-38 maximum	condensation is present), horizontal installation
chemical resistance to commercially available cooling	Yes; incl. diesel and oil droplets in the air
lubricants	,
resistance to biologically active substances	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class
conformity acc. to EN 60721-3-3	3B3 upon request
resistance to chemically active substances	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52
conformity acc. to EN 60721-3-3	(severity level 3)
resistance to mechanically active substances	Yes; Class 3S4 incl. sand, dust
conformity acc. to EN 60721-3-3	
resistance to biologically active substances	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
conformity acc. to EN 60721-3-6	Vec: Class 6C3 (DH < $75\%$ ) inclusely and to EN 60069 2.53
resistance to chemically active substances conformity acc. to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
resistance to mechanically active substances	Yes; Class 6S3 incl. sand, dust
conformity acc. to EN 60721-3-6	



coating for equipped printed circuit board acc. to EN 61086	Yes; Class 2 for high availability
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection
type of test of the coating acc. to MIL-I-46058C	Yes; Discoloration of the coating during service life possible
product conformity of the coating Qualification and	Yes; Conformal Coating, Class A
Performance of Electrical Insulating Compound for	
Printed Board Assemblies acc. to IPC-CC-830A	
Mechanics	
type of electrical connection	screw-type terminals
● at input	24 V DC: 2 screw terminals for 1 4 mm²/17 11 AWG
• at output	24 V DC: 4 screw terminals for 1 4 mm²/17 11 AWG
<ul> <li>for battery module</li> </ul>	24 V DC: 2 screw terminals for 1 4 mm²/17 11 AWG
<ul> <li>for control circuit and status message</li> </ul>	10 screw terminals for 0.5 2.5 mm²/20 13 AWG
width of the enclosure	50 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	0.4 kg
product feature of the enclosure housing for side-by-	Yes
side mounting	
mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Battery module
MTBF at 40 °C	791 139 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)

