SIEMENS

Data sheet

6AG1134-3AB00-7AY2



SIPLUS PS UPS1600 10A PN

SIPLUS PS UPS1600 10A PN based on 6EP4134-3AB00-2AY0 with conformal coating, -25...+70 °C, uninterruptible power supply with Ethernet/ PROFINET interface input: 24 V DC output: 24 V DC/ 10 A

Input	Input	
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 or via software	
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 or via software	
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 5 sec/min	
supplied active power typical	240 W	
Efficiency		
efficiency in percent		
 at rated output voltage for rated value of the output current typical 	97.3 %	
 in case of operation on rechargeable battery typical 	97.3 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	7 W	
 in case of operation on rechargeable battery typical 	7 W	

Protection and monitoring	
product function	
 reverse polarity protection against energy storage unit polarity reversal 	Yes
 reverse polarity protection against input voltage polarity reversal 	Yes
Signaling	
display version	
for normal operation	Normal operation: LED green (OK), floating changeover contact
• in buffering mode	"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 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	Yes
design of the interface	Ethernet/PROFINET
Safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
EMC	
standard	
 for emitted interference 	EN 55022 Class B
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature in horizontal mounting position during operation	-25 +70; with natural convection
ambient temperature during storage and transport	-40 +85
installation altitude at height above sea level maximum	6 000 m
ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: 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 60068-2- 38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air
resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
resistance to chemically active substances conformity acc.	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52
to EN 60721-3-3	(severity level 3); *
resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust; *
resistance to mechanically active substances conformity acc. to EN 60721-3-3 resistance to biologically active substances conformity acc. to EN 60721-3-6	Yes; Class 3S4 incl. sand, dust; * Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
resistance to mechanically active substances conformity acc. to EN 60721-3-3 resistance to biologically active substances conformity acc. to EN 60721-3-6 resistance to chemically active substances conformity acc. to EN 60721-3-6	Yes; Class 3S4 incl. sand, dust; * Yes; Class 6B2 mold, fungal, sponge spores (except fauna) Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3); *
resistance to mechanically active substances conformity acc. to EN 60721-3-3 resistance to biologically active substances conformity acc. to EN 60721-3-6 resistance to chemically active substances conformity acc. to EN 60721-3-6 resistance to mechanically active substances conformity acc. to EN 60721-3-6	Yes; Class 3S4 incl. sand, dust; * Yes; Class 6B2 mold, fungal, sponge spores (except fauna) Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3); * Yes; Class 6S3 incl. sand, dust; *
resistance to mechanically active substances conformity acc. to EN 60721-3-3 resistance to biologically active substances conformity acc. to EN 60721-3-6 resistance to chemically active substances conformity acc. to EN 60721-3-6 resistance to mechanically active substances conformity acc. to EN 60721-3-6 environmental category acc. to IEC 60721 note	Yes; Class 3S4 incl. sand, dust; * Yes; Class 6B2 mold, fungal, sponge spores (except fauna) Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied connector covers must remain on the unused interfaces during operation!
resistance to mechanically active substances conformity acc. to EN 60721-3-3 resistance to biologically active substances conformity acc. to EN 60721-3-6 resistance to chemically active substances conformity acc. to EN 60721-3-6 resistance to mechanically active substances conformity acc. to EN 60721-3-6	Yes; Class 3S4 incl. sand, dust; * Yes; Class 6B2 mold, fungal, sponge spores (except fauna) Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied connector covers must remain on the unused interfaces

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 Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal Coating, Class A
Mechanics	
type of electrical connection	screw-type terminals
• at input	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG
at output	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG
 for rechargeable battery module 	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG
 for control circuit and status message 	14 screw terminals for 0.2 1.5 mm ² /24 16 AWG
width of the enclosure	50 mm
height of the enclosure	139 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
right	0 mm
net weight	0.44 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	349 874 h
reference code acc. to IEC 81346-2	Т
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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