SIEMENS

Data sheet 6AG1134-3AB00-7AY0

SIPLUS PS UPS1600 10A
SIPLUS PS UPS1600 10A -25 ... +70°C with conformal coating based on 6EP4134-3AB00-0AY0. Uninterruptible power supply input: 24 V DC Output: DC 24 V/10 A

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
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
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
ON-delay time typical	60 s
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 current for rated value of the output current typical	97.5 %
• in case of accumulator operation typical	97.5 %
Power loss [W]	
• at rated output current for rated value of the output current typical	6 W
• in case of accumulator operation typical	6 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 "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
Protection class IP	IP20
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; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
Resistance to chemically active substances conformity acc. to EN 60721-3-3	Yes; Class 3C4 (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	Yes; Class 3S4 incl. sand, dust
Mechanics	
Type of electrical connection	screw-type terminals
• at input	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for battery module	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for control circuit and status message	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 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	0.38 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	415 574 h
Reference code acc. to DIN EN 81346-2	T
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)