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

| | |
|---|---|
| Technical Product Detail Page | https://i.siemens.com/1P6AG1134-3AB00-7AY2 |
| **input** | |
| supply voltage at DC rated value | 24 V |
| input voltage at DC | 21 ... 29 V |
| 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) |
| **memory** | |
| 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 |
| **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 |
| charging current | 0.1 A, 3 A |
| **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 |
| supplied active power typical | 240 W |
| **protection and monitoring** | |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| product function | |
| ● reverse polarity protection against energy storage unit polarity reversal | Yes |
| ● reverse polarity protection against input voltage polarity reversal | Yes |
| 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 NOcontact "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 |
| **interfaces** | |
| product component PC interface | Yes |
| product function communication function | Yes |
| design of the interface | Ethernet/PROFINET |
| number of interfaces according to PROFINET | 2 |
| **safety** | |
| galvanic isolation between input and output | No |
| operating resource protection class | Class III |
| protection class IP | IP20 |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UKCA marking | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| MTBF at 40 °C | 349 874 h |
| **ambient conditions** | |
| ambient temperature | |
| ● in horizontal mounting position during operation | -25 ... +70 °C; with natural convection |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| 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 according to IEC 60068-2-38 maximum | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation |
| environmental category according to IEC 60721 | * The supplied connector covers must remain on the unused interfaces during operation! |
| chemical resistance to commercially available cooling lubricants | Yes; incl. diesel and oil droplets in the air |
| resistance to biologically active substances conformity according to EN 60721-3-3 | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request |
| resistance to chemically active substances conformity according 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 according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust; * |
| resistance to biologically active substances conformity according to EN 60721-3-6 | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) |
| resistance to chemically active substances conformity according 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 conformity according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| coating for equipped printed circuit board according to EN 61086 | Yes; Class 2 for high availability |
| type of coating protection against pollution according to EN 60664-3 | Yes; Type 1 protection |


© Copyright Siemens

| | |
|---|---|
| type of test of the coating according 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 according to IPC-CC-830A | Yes; Conformal Coating, Class A |
| **connection method** | |
| type of electrical connection | screw terminal |
| ● 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 rechargeable 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 |
| **mechanical data** | |
| width × height × depth of the enclosure | 50 × 139 × 125 mm |
| installation width × mounting height | 50 mm × 239 mm |
| required spacing | |
| ● top | 50 mm |
| ● bottom | 50 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| ● DIN-rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 0.44 kg |
| **accessories** | |
| electrical accessories | Battery module |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 14 | 27-04-07-05 |
| eClass | 12 | 27-04-07-05 |
| eClass | 9.1 | 27-04-07-05 |
| eClass | 9 | 27-04-07-05 |
| eClass | 8 | 27-04-06-90 |
| eClass | 7.1 | 27-04-06-90 |
| eClass | 6 | 27-04-06-90 |


© Copyright Siemens

| | | |
|---|---|---|
| ETIM | 10 | EC000382 |
| ETIM | 9 | EC000382 |
| ETIM | 8 | EC000382 |
| ETIM | 7 | EC000382 |
| IDEA | 4 | 4149 |
| UNSPSC | 15 | 39-12-10-11 |

## Approvals Certificates

### General Product Approval

Manufacturer Declaration

China RoHS

**last modified:** 11/24/2025


Subject to change without notice
© Copyright Siemens