

## Special designs, special uses

### SIPLUS power supplies

#### Overview

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Particularly harsh industrial ambient conditions demand products with special characteristics - products that are more rugged than standard products.

Siemens offers the perfect answer to these requirements with SIPLUS extreme.

SIPLUS product variants are based on the SITOP, LOGO!Power standard power supplies and the power supplies for SIMATIC S7 and expansion modules, and feature the following characteristics:

- Extended ambient temperature range (e.g. -40 ... +70 °C) and conformal coating as protection against extreme and difficult conditions and exposure to environmental substances

There are also SIPLUS Rail variants that meet the special requirements of the railroad industry:

- EN 50155: conforms with standard for electronic equipment used on rolling stock (EN 50155).

Ambient conditions	
Conformal coating	Coating of the printed circuit boards and the electronic components
Technical specifications	The technical data of the standard product applies except for the ambient conditions.
Relative humidity	100%, condensation/frost permissible. No commissioning in bedewed state.
Biologically active substances, compliance with EN 60721-3-3	Class 3B2 mold and fungal spores (excluding fauna). The supplied plug covers must remain in place over the unused interfaces during operation.
Chemically active substances, compliance with EN 60721-3-3	Class 3C4 incl. salt spray acc. to EN 60068-2-52 (severity 3). The supplied plug covers must remain in place over the unused interfaces during operation.
Mechanically active substances, compliance with EN 60721-3-3	Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
Air pressure (depending on the highest positive temperature range specified)	1080 ... 795 hPa (-1000 ... +2000 m) see ambient temperature range 795 ... 658 hPa (+2000 ... +3500 m) derating 10 K 658 ... 540 hPa (+3500 ... +5000 m) derating 20 K

For further technical specifications, see the standard products, or visit <http://www.siemens.com/siplus-extreme>

## Selection and ordering data

	Article No.
<b>SIPLUS LOGO!Power</b>	
<b>SIPLUS LOGO!Power 24 V 1.3 A</b> Extended temperature range and exposure to environmental substances Input: 100 ... 240 V AC Output: 24 V DC, 1.3 A	6AG1331-6SB00-7AY0
<b>SIPLUS LOGO!Power 24 V 2.5 A</b> Extended temperature range and exposure to environmental substances Input: 100 ... 240 V AC Output: 24 V DC, 2.5 A	6AG1332-6SB00-7AY0
<b>SIPLUS LOGO!Power 24 V 4 A</b> Extended temperature range and exposure to environmental substances Input: 100 ... 240 V AC Output: 24 V DC, 4 A	6AG1333-6SB00-7AY0
<b>SIPLUS Advanced power supplies</b>	
<b>SIPLUS PS PSU8200 1-phase, 24 V DC/40 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A	6AG1337-8SB00-7AY0
<b>SIPLUS PS PSU8200 3-phase, 24 V DC/40 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 400-500 V 3 AC Output: 24 V DC/40 A	6AG1437-8SB00-7AY0
<b>SIPLUS smart</b>	
<b>SIPLUS PSU100S 24 V/10 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 120/230 V AC Output: 24 V DC/10 A	6AG1334-2BA20-4AA0
<b>SIPLUS PSU300S 3-phase, 24 V DC/5 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 400 ... 500 V 3 AC Output: 24 V DC/5 A	6AG1433-2BA20-7AA0
<b>SIPLUS PSU300S, 3-phase, 24 V DC/10 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 400 ... 500 V 3 AC Output: 24 V DC/10 A	6AG1434-2BA20-7AA0
<b>SIPLUS PSU300S 3-phase, 24 V DC/20 A</b> Extended temperature range and exposure to environmental substances Stabilized power supply Input: 400 ... 500 V 3 AC Output: 24 V DC/20 A	6AG1436-2BA10-7AA0

## Selection and ordering data (continued)

	Article No.
<b>SIPLUS modular</b>	
<b>SIPLUS PS PSU200M 1- and 2-phase, 24 V DC/5 A</b> Exposure to environmental substances Stabilized power supply Input: 120 ... 230/230 ... 500 V AC Output: 24 V DC/5 A	6AG1333-3BA10-7AA0
<b>SIPLUS PS PSU200M 1- and 2-phase, 24 V DC/10 A</b> Exposure to environmental substances Stabilized power supply Input: 120 ... 230/230 ... 500 V AC Output: 24 V DC/10 A	6AG1334-3BA10-7AA0
<b>SIPLUS in SIMATIC design</b>	
<b>SIPLUS S7-300 PS 305</b> Extended temperature range and exposure to environmental substances Input: 24 ... 110 V DC Output: 24 V DC/2 A	6AG1305-1BA80-2AA0
<b>SIPLUS S7-300 PS 307 5 A</b> Extended temperature range and exposure to environmental substances Incl. connecting comb 120/230 V AC; 24 V DC Output current 5 A (dimensions 60 x 125 x 120)	6AG1307-1EA01-7AA0
<b>SIPLUS S7-300 PS 307 10 A</b> Extended temperature range and exposure to environmental substances Incl. connecting comb 120/230 V AC; 24 V DC Output current 10 A (dimensions 80 x 125 x 120) For rolling stock railway applications	6AG1307-1KA02-7AA0
<b>SIPLUS S7-1200 PM 1207</b> Extended temperature range and exposure to environmental substances Input: 120/230 V AC Output: 24 V DC, 2.5 A Derating from +55 °C to +70 °C to 1.2 A output current Ambient temperature -25 ... +70 °C	6AG1332-1SH71-7AA0
<b>SIPLUS S7-1200 PM 1207</b> Extended temperature range and exposure to environmental substances Input: 120/230 V AC Output: 24 V DC, 2.5 A Derating from +55 °C to +70 °C to 1.2 A output current Ambient temperature 0 ... +60 °C	6AG1332-1SH71-4AA0
<b>SIPLUS S7-1500 PM 1507</b> Extended temperature range and exposure to environmental substances Input: 120/230 V AC Output: 24 V DC, 3 A	6AG1332-4BA00-7AA0
<b>SIPLUS S7-1500 PM 1507</b> Extended temperature range and exposure to environmental substances Input 120/230 V AC Output: 24 V DC, 8 A	6AG1333-4BA00-7AA0

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## Selection and ordering data (continued)

	Article No.
<b>SIPLUS S7-1500 system power supply</b>	
Extended temperature range and exposure to environmental substances for supplying the backplane bus of the S7-1500 controller 24 V DC input voltage, power 25 W	6AG1505-0KA00-7AB0
Extended temperature range and exposure to environmental substances for supplying the backplane bus of the S7-1500 controller 24/48/60 V DC input voltage, power 60 W	6AG1505-0RA00-7AB0
Extended temperature range and exposure to environmental substances for supplying the backplane bus of the S7-1500 controller 120/230 V AC input voltage, power 60 W	6AG1507-0RA00-7AB0
<b>SIPLUS DC/DC converter</b>	
<b>SIPLUS PS 24V/0.375A</b>	6AG1931-2BA00-3AA0
Exposure to environmental substances DC/DC stabilized power supply Input: 48 ... 220 V DC Output: 24 V DC/0.375 A Condensation permissible	
<b>SIPLUS PS PSU3400 1ACDC DC 24V 2.5A</b>	6AG1332-0TA00-7AY0
With conformal coating -40 ... +70 °C, startup -25 °C Stabilized power supply Input: 230 V AC (88 ... 264 V) Input: 24 V DC (18 ... 264 V) Output: 24 V DC/2.5 A	
<b>SIPLUS add-on modules</b>	
<b>SIPLUS PS E202U redundancy module</b>	6AG1961-3BA21-7AX0
Extended temperature range and exposure to environmental substances Input/output: 24 V DC/40 A Suitable for decoupling two SITOP power supplies each with a maximum of 20 A output current	
<b>SIPLUS PS E202U redundancy module</b>	6AG1961-3BA21-4AX0
Exposure to environmental substances Input/output: 24 V DC/40 A Suitable for decoupling two SITOP power supplies each with a maximum of 20 A output current	
<b>SIPLUS PSE200U 3 A selectivity module</b>	6AG1961-2BA31-7AA0
For exposure to environmental substances Selectivity module, 4-channel Input: 24 V DC Output: 24 V DC/3 A per channel Output current adjustable 0.5 ... 3 A With single-channel signaling	
<b>SIPLUS PSE200U 10 A selectivity module</b>	6AG1961-2BA41-7AA0
For exposure to environmental substances Selectivity module, 4-channel Input: 24 V DC Output: 24 V DC/10 A per channel Output current adjustable 3 ... 10 A With single-channel signaling	

## Selection and ordering data (continued)

	Article No.
<b>SIPLUS modular buffer module</b>	6AG1961-3BA01-7AA0
For 6AG1 961-3BA01-7AA0; Buffer time 100 ms up to 10 s, depending on load current	
<b>SIPLUS DC UPS, uninterruptible power supplies</b>	
<b>SIPLUS PS DC UPS module 15 A</b>	6AG1931-2EC21-2AA0
Extended temperature range and exposure to environmental substances Uninterruptible power supply without interface; Input: 24 V DC/16 A Output: 24 V DC/15 A	
<b>SIPLUS PS DC UPS module 40 A</b>	6AG1931-2FC21-7AA0
Extended temperature range and exposure to environmental substances Uninterruptible power supply without interface; Input: 24 V DC/43 A Output: 24 V DC/40 A	
<b>SIPLUS PS UPS1600 24 V/10 A</b>	6AG1134-3AB00-7AY0
Extended temperature range and exposure to environmental substances Without interface	
<b>SIPLUS PS UPS1600 24 V/10 A</b>	6AG1134-3AB00-7AY2
Extended temperature range and exposure to environmental substances With PROFINET/Ethernet: two RJ45 sockets (2 port switch)	
<b>SIPLUS PS UPS1100 battery module 7 Ah</b>	6AG1134-0GB00-4AY0
Exposure to environmental substances With maintenance-free, sealed rechargeable lead-acid batteries for SIPLUS UPS1600 DC UPS module, 10 A	