



Figure similar

SIPLUS POWER DC 24V/ 0,375 A

*** spare part *** SIPLUS PS 24 V/0.375 A based on 6EP1731-2BA00 with conformal coating, -25...+70 °C, in: 48...220 V DC out: 24 V DC/0.375 A

General information	
manufacturer's article number of the basic version used for SIPLUS product versions	6EP1731-2BA00
input	
type of the power supply network	DC voltage
supply voltage at AC	
• initial value	30 V
• full-scale value	187 V
supply voltage at DC	48 ... 220 V
input voltage at DC	30 ... 264 V
wide range input	Yes
overvoltage overload capability	-
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at $V_{in} = 220\text{ V}$
input current	
• at rated input voltage 48 V	0.3 A
• at rated input voltage 220 V	0.06 A
current limitation of inrush current at 25 °C maximum	35 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I ² t value maximum	1.2 A ² ·s
fuse protection type	F 4 A/250 V (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C, suitable for DC
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
output voltage adjustable	No; -
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	150 mV
• typical	50 mV
voltage peak	

<ul style="list-style-type: none"> • maximum 	240 mV
<ul style="list-style-type: none"> • typical 	50 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	
<ul style="list-style-type: none"> • typical 	90 ms
output current	
<ul style="list-style-type: none"> • rated value 	0.375 A
<ul style="list-style-type: none"> • rated range 	0 ... 0.375 A; +60 ... +70 °C: Derating 3%/K
supplied active power typical	9 W
short-term overload current	
<ul style="list-style-type: none"> • at short-circuit during operation typical 	2.7 A
duration of overloading capability for excess current	
<ul style="list-style-type: none"> • at short-circuit during operation 	200 ms
bridging of equipment	No
efficiency	
efficiency in percent	66 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	4.6 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.4 %
setting time	
<ul style="list-style-type: none"> • load step 50 to 100% typical 	2 ms
<ul style="list-style-type: none"> • load step 100 to 50% typical 	2 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	0.41 ... 0.49 A
enduring short circuit current RMS value	
<ul style="list-style-type: none"> • maximum 	0.9 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> • maximum 	3.5 mA
protection class IP	IP20
EMC	
standard	
<ul style="list-style-type: none"> • for emitted interference 	EN 55022 Class B
<ul style="list-style-type: none"> • for mains harmonics limitation 	not applicable
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UKCA marking 	Yes
MTBF at 40 °C	1 466 123 h
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • in horizontal mounting position during operation 	-25 ... +70 °C; with natural convection
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • 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
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
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
<ul style="list-style-type: none"> at input 	L+1, M1, PE: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded
<ul style="list-style-type: none"> at output 	+ : 1 screw terminal for 0.5 ... 2.5 mm ² ; - : 2 screw terminals for 0.5 ... 2.5 mm ²
mechanical data	
width × height × depth of the enclosure	22.5 × 80 × 91 mm
installation width × mounting height	22.5 mm × 180 mm
required spacing	
<ul style="list-style-type: none"> top 	50 mm
<ul style="list-style-type: none"> bottom 	50 mm
<ul style="list-style-type: none"> left 	0 mm
<ul style="list-style-type: none"> right 	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
<ul style="list-style-type: none"> DIN-rail mounting 	Yes
<ul style="list-style-type: none"> S7 rail mounting 	No
<ul style="list-style-type: none"> wall mounting 	No
housing can be lined up	Yes
net weight	0.14 kg
further information internet links	
internet link	
<ul style="list-style-type: none"> 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

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)

[China RoHS](#)



General Product Approval

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last modified:

5/5/2026