

AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6EP3331-6SB00-0AY0

LOGO!POWER stabilized DC power supply

Technical data	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0
Ordering code	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3331-6SB00-0AY0
Product description	LOGO!POWER stabilized DC power supply	LOGO!POWER stabilized DC power supply	LOGO!POWER stabilized DC power supply	LOGO!POWER stabilized DC power supply	LOGO!POWER stabilized DC power supply
Output voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Output current	1.3 A	1.3 A	1.3 A	1.3 A	1.3 A
Output power	31.2 W	31.2 W	31.2 W	31.2 W	31.2 W
Input voltage	100 to 240 V AC	100 to 240 V AC	100 to 240 V AC	100 to 240 V AC	100 to 240 V AC
Input frequency	47 to 63 Hz	47 to 63 Hz	47 to 63 Hz	47 to 63 Hz	47 to 63 Hz
Power factor	0.95	0.95	0.95	0.95	0.95
Efficiency	85%	85%	85%	85%	85%
Dimensions	100 x 100 x 100 mm	100 x 100 x 100 mm	100 x 100 x 100 mm	100 x 100 x 100 mm	100 x 100 x 100 mm
Weight	0.5 kg	0.5 kg	0.5 kg	0.5 kg	0.5 kg
Operating temperature	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C
Storage temperature	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C
Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Shock	10 g	10 g	10 g	10 g	10 g
Vibration	0.5 mm/s	0.5 mm/s	0.5 mm/s	0.5 mm/s	0.5 mm/s
EMC	CE	CE	CE	CE	CE
RoHS	Yes	Yes	Yes	Yes	Yes

OUTPUT VOLTAGE

24 V DC

OUTPUT CURRENT

1.3 A

OUTPUT POWER

31.2 W

AC INPUT

100-240 V

Siemens 6EP3331-6SB00-0AY0 is a LOGO!POWER stabilized power supply rated 24 V DC and 1.3 A. It accepts a nominal 100 to 240 V AC input and supplies up to 31.2 W for compatible low-voltage control equipment. It is a power supply, not a programmable controller.

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VERIFIED PRODUCT PARAMETERS

Nominal input voltage	100 to 240 V AC
Permissible AC input	85 to 264 V AC
Permissible DC input	110 to 300 V DC
Input frequency	47 to 63 Hz
Rated DC output	24 V DC
Rated output current	1.3 A
Rated output power	31.2 W
Output adjustment range	22.2 to 26.4 V
Mains buffering	Minimum 40 ms at 187 V AC and rated load
Maximum inrush current	25 A at 25 degrees C

Technical values were verified against Siemens LOGO!Power manual A5E40912965-2-76, 01/2019 and the Siemens Industry Mall record for the exact article number.

02 ADDITIONAL TECHNICAL DATA

Output rise time	Typical 100 ms
Output connection	Two positive and two negative screw terminals
Protection class	Class II; protective-earth connection not required
Ingress protection	IP20
Thermal output derating	2% per kelvin from 55 to 70 degrees C

03 SYSTEM ROLE AND APPLICATIONS

The output can be adjusted from 22.2 to 26.4 V. Cabinet design must account for the actual connected load, thermal derating and the documented mounting clearances. Siemens also describes engineered parallel and redundant supply arrangements; these require the specified wiring and protective measures.

- Supply a low-voltage control circuit: Convert a compatible line supply to stabilized 24 V DC for the connected control load. Check the total continuous demand, startup behavior and cable voltage drop, and retain the ventilation space specified for the chosen mounting position.
- Increase the available DC capacity: Use two matching supplies in the documented parallel arrangement when one unit cannot cover the load. Match their output settings, use equal branch wiring and switch their inputs together; verify load sharing before releasing the circuit.
- Maintain power after one supply fails: For a redundancy design, size the surviving supply for the complete required load and decouple the positive outputs with suitable diodes. Siemens recommends separate line-side fusing; evaluate the loss of either supply during commissioning.

04 OFFICIAL INSTALLATION FACTS

- Isolate all input supplies and verify the exact article number before wiring.
- Use the documented DIN-rail or wall mounting method; retain the required ventilation clearances.
- Connect the AC line and neutral to the identified L1 and N terminals. For DC input, connect positive to L1 and negative to N.
- Connect the load to the marked positive and negative output terminals, using the specified conductor range.

05 OFFICIAL DOCUMENTATION

Siemens LOGO!Power manual A5E40912965-2-76, 01/2019

AMIKON PRODUCT SUPPORT

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