SIEMENS

Data sheet 6AG2333-0SB00-4AY0



SIPLUS PS PSU2600 24V5A TX RAIL

SIPLUS PS PSU2600 24V/5A TX rail input: 110 V DC, output: 24 V DC/5 A, -40…+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes),

Technical Product Detail Page	https://i.siemens.com/1P6AG2333-0SB00-4AY0
input	
type of the power supply network	DC voltage
supply voltage at DC	110 V
input voltage at DC	77 ... 154 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 110 V
input current	
● at rated input voltage 110 V	1.2 A
current limitation of inrush current at 25 °C maximum	25 A
fuse protection type	internal
fuse protection type in the feeder	None required. Fuse protection starting from 6 A Char. C possible
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	Yes; via potentiometer
adjustable output voltage	24 ... 28.8 V; max. 120 W
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	0.2 %
residual ripple	
● maximum	50 mV
voltage peak	
● maximum	200 mV
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 s
voltage increase time of the output voltage	
● maximum	500 ms
output current	
● rated value	5 A
● rated range	0 ... 5 A; 5 A up to +60°C; 4 A up to +70°C
supplied active power typical	120 W

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constant overload current	
● on short-circuiting during the start-up typical	6 A
bridging of equipment	No
efficiency	
efficiency in percent	87 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	17.5 W
● during no-load operation maximum	1 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
● load step 50 to 100% typical	0.2 ms
● load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
● load step 10 to 90% typical	0.2 ms
● load step 90 to 10% typical	0.2 ms
● maximum	10 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
● typical	6 A
enduring short circuit current RMS value	
● typical	6 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
● maximum	3.5 mA
● typical	1.1 mA
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 50121-3-2
● for interference immunity	EN 50121-3-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
standards, specifications, approvals other	
certificate of suitability	
● railway application in accordance with EN 50121-3-2	Yes; EMC for rail vehicles
● railway application in accordance with EN 50124-1	Yes; Rail vehicles - Overvoltage category OV2; Pollution degree PD2
● railway application in accordance with EN 50125-1	Yes; Rail vehicles - see ambient conditions
● railway application in accordance with EN 50155	Yes; Rail vehicles - Temperature class OT4/ST1/ST2 max. 4 A, horizontal installation, interruption class S3, switching class C1
● railway application in accordance with EN 61373	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
● fire protection in accordance with EN 45545-2	Yes; Rail vehicles - proof on request
ambient conditions	
ambient temperature	
● in horizontal mounting position during operation	-40 ... +70 °C; +85 °C for 10 min (OT4/ST1/ST2 acc. to EN 50155 at max. 4 A)
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
installation altitude at height above sea level maximum	5 000 m

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ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 5000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
type of coating for electronic devices in railway applications according to EN 50155	Yes; Protective coating of Class PC2 acc. to EN 50155:2017
connection method	
type of electrical connection	screw terminal
● at input	Input, output and ground: 1 screw terminal each for 0.2 ... 2.5 mm² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.2 ... 2.5 mm²
● for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.05 ... 2.5 mm²
mechanical data	
width × height × depth of the enclosure	42 × 125 × 125 mm
installation width × mounting height	42 mm × 225 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	0.6 kg
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	27-04-07-01
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

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ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval			Railway
Manufacturer Declaration	CE EG-Konf.	UKCA	Confirmation

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