



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),

General information	
Technical Product Detail Page	https://www.modulplc.com/?s=6AG2333-0SB00-4AY0
manufacturer's article number of the basic version used for SIPLUS product versions	6EP4333-0SB00-0AY0
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 $V_{in} = 110 \text{ V}$
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 V_{out} (soft start)
response delay maximum	1.5 s
voltage increase time of the output voltage	
• maximum	500 ms
output current	

<ul style="list-style-type: none"> • rated value • rated range 	5 A 0 ... 5 A; 5 A up to +60°C; 4 A up to +70°C
supplied active power typical	120 W
constant overload current <ul style="list-style-type: none"> • on short-circuiting during the start-up typical 	6 A
bridging of equipment	No
efficiency	
efficiency in percent	87 %
power loss [W] <ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical • during no-load operation maximum 	17.5 W 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 <ul style="list-style-type: none"> • load step 50 to 100% typical • load step 100 to 50% typical 	0.2 ms 0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time <ul style="list-style-type: none"> • load step 10 to 90% typical • load step 90 to 10% typical • maximum 	0.2 ms 0.2 ms 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 <ul style="list-style-type: none"> • typical 	Shutdown and periodic restart attempts 6 A
enduring short circuit current RMS value <ul style="list-style-type: none"> • typical 	6 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 • typical 	3.5 mA 1.1 mA
protection class IP	IP20
EMC	
standard <ul style="list-style-type: none"> • for emitted interference • for interference immunity 	EN 50121-3-2 EN 50121-3-2
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> • CE marking 	Yes
standards, specifications, approvals other	
certificate of suitability <ul style="list-style-type: none"> • railway application in accordance with EN 50121-3-2 • railway application in accordance with EN 50124-1 • railway application in accordance with EN 50125-1 • railway application in accordance with EN 50155 • railway application in accordance with EN 61373 • fire protection in accordance with EN 45545-2 	Yes; EMC for rail vehicles Yes; Rail vehicles - Overvoltage category OV2; Pollution degree PD2 Yes; Rail vehicles - see ambient conditions Yes; Rail vehicles - Temperature class OT4/ST1/ST2 max. 4 A, horizontal installation, interruption class S3, switching class C1 Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B Yes; Rail vehicles - proof on request
ambient conditions	
ambient temperature <ul style="list-style-type: none"> • 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)

<ul style="list-style-type: none"> during transport during storage 	-40 ... +85 °C
installation altitude at height above sea level maximum	5 000 m
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
<ul style="list-style-type: none"> at input 	Input, output and ground: 1 screw terminal each for 0.2 ... 2.5 mm ² single-core/finely stranded
<ul style="list-style-type: none"> at output 	+, -: 2 screw terminals each for 0.2 ... 2.5 mm ²
<ul style="list-style-type: none"> for auxiliary contacts 	13, 14 (alarm signal): 1 screw terminal each for 0.05 ... 2.5 mm ²

mechanical data

width × height × depth of the enclosure	42 × 125 × 125 mm
installation width × mounting height	42 mm × 225 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	0.6 kg

further information internet links

internet link	
<ul style="list-style-type: none"> to website: Industry Mall 	https://www.modulplc.com/?s=6AG2333-0SB00-4AY0
<ul style="list-style-type: none"> to website: Industry Online Support 	https://www.modulplc.com/?s=6AG2333-0SB00-4AY0

additional information

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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security information

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Classifications

	Version	Classification
eClass	16	27-04-07-01
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](#)





Railway

[Confirmation](#)

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