SIEMENS

Data sheet

6GK5924-0PS00-1AA2

product type designation



Power Supply SCALANCE PS924 PoE

SCALANCE PS924 PoE power supply for power over Ethernet, input: 24 V DC output: 54 V DC/1.6 A NEC Class 2.

suitability for use cloctrical data / input	type of current supply	Input: DC 24 V, Output: DC 54 V / 1.6 A, NEC CLASS 2
supply voltage / 1 / rated value • consumed current / 1 / at rated supply voltage / maximum design of input / wide range input No buffering time / for rated value of the output current / in the event of power faiture / innimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input electrical data / output voltage curve / at output voltage curve / at output output voltage • 1 / at DC / rated value display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum voltage increase time / of the output voltage / maximum output current • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.05 V voltage peak / maximum 0.05 V	suitability for use	Power supply for PoE
supply voltage / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / at rated supply voltage / maximum design of input / wide range input buffering time / for rated value of the output current / in the event of power failure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input electrical data / output voltage curve / at output voltage unve / at output voltage curve / at output voltage unve / at output voltage curve / at output voltage unve / at output voltage unve / at output voltage • 1 / at DC / rated value 54 V display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value •	electrical data / input	
supply voltage / 1 / rated value consumed current / 1 / at rated supply voltage / maximum design of input / wide range input buffering time / for rated value of the output current / in the event of power failure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input voltage protection type / at input voltage curve / at output voltage curve / at output voltage curve / at output output voltage	voltage curve / at input	DC
onsumed current / 1 / at rated supply voltage / maximum design of input / wide range input buffering time / for rated value of the output current / in the event of power failure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input fuse protection type / at input clectrical data / output voltage curve / at output voltage curve / at output output voltage	supply voltage / 1 / rated value	24 V
design of input / wide range input buffering time / for rated value of the output current / in the event of power failure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input electrical data / output voltage curve / at output voltage curve / at output voltage wersion / for normal operation behavior of the output voltage / when switching on behavior of the output voltage / when switching on startup delay time / maximum voltage increase time / of the output voltage / maximum output current • rated value • rated value • rated value • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] residual ripple / maximum 0.05 V voltage paak / maximum 0.2 V	 supply voltage / 1 / rated value 	19.2 28.8 V
buffering time / for rated value of the output current / in the event of power fallure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input letectrical data / output voltage curve / at output voltage curve / at output output voltage • 1 / at DC / rated value startup delay time / for normal operation behavior of the output voltage / when switching on startup delay time / maximum output current • rated value • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent selectrical data / closed-loop control relative overall tolerance / of the voltage / fix will not be a fixed realized on the voltage / fix will not be a fixed realized on the voltage / fix will not be a fixed realized on the control of the voltage / fix will not be a fixed realized on the control of the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not be a fixed realized for the voltage / fix will not fixed fixed for the voltage / fixed fixed fixed fixed for the voltage / fixed f	• consumed current / 1 / at rated supply voltage / maximum	4.1 A
event of power failure / minimum current limitation / of inrush current / at 25 °C / maximum fuse protection type / at input electrical data / output voltage curve / at output output voltage • 1 / at DC / rated value display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum voltage increase time / of the output voltage / maximum output current • rated value • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel switched equipment resources / for increasing the power efficiency in percent power loss [W] residual ripple / maximum 0.05 V voltage peak / maximum 0.05 V voltage peak / maximum 0.2 V	design of input / wide range input	No
fuse protection type / at input clectrical data / output voltage curve / at output output voltage • 1 / at DC / rated value display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum voltage increase time / of the output voltage / maximum output current • rated value • rated value • rated range product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V		5 ms
electrical data / output voltage curve / at output output voltage • 1 / at DC / rated value display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value • rated range o 1.8 A supplied active power / typical product feature / parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] electrical data / closed-loop control relative overall tolerance / of the voltage voltage peak / maximum O.2 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable for 40 V to 54 V controlled, isolated DC voltage, adjustable for 40 V to 54 V controlled, isolated DC voltage, adjustable for 40 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable for DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable from 48 V to 54 V controlled, isolated DC voltage, adjustable for DC voltage, adjustable for DC voltage, adjustable for DC voltage, adjustable for DC voltage, adjustabl	current limitation / of inrush current / at 25 °C / maximum	10 A
voltage curve / at output output voltage • 1 / at DC / rated value 54 V display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value • rated range product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] residual ripple / maximum 0.05 V voltage paak / maximum 0.2 V	fuse protection type / at input	Fuse T 15A soldered
output voltage • 1 / at DC / rated value 1 / at DC / rated value 54 V display version / for normal operation LED green for DC ok behavior of the output voltage / when switching on Startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value • rated value • rated range 0 1.8 A supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent 86 % power loss [W] 14 W clectrical data / closed-loop control relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	electrical data / output	
1 / at DC / rated value display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum 15 ms output current • rated value • rated range • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent 96 % power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	voltage curve / at output	Controlled, isolated DC voltage, adjustable from 48 V to 54 V
display version / for normal operation behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	output voltage	
behavior of the output voltage / when switching on startup delay time / maximum 1.5 s voltage increase time / of the output voltage / maximum output current • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent sefficiency in percent power loss [W] electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	1 / at DC / rated value	54 V
startup delay time / maximum voltage increase time / of the output voltage / maximum output current • rated value • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 1.5 s 1.6 A 0 1.8 A 86 W Po 1.8 A 86 W 1.9 A 1.9 A 1.9 A 1.9 A 1.9 A 1.0 A	display version / for normal operation	LED green for DC ok
voltage increase time / of the output voltage / maximum output current outpu	behavior of the output voltage / when switching on	Overshoot of Ua < 2 %
output current • rated value • rated range • rated range supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] relative overall tolerance / of the voltage residual ripple / maximum 1.6 A 1.6 A 1.8 A 86 W 90 1 4 W 1 4 W 1 5 8 6 W 1 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	startup delay time / maximum	1.5 s
 rated value rated range 0 1.8 A supplied active power / typical 86 W product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent 86 % power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V 	voltage increase time / of the output voltage / maximum	15 ms
■ rated range Supplied active power / typical product feature / parallel switching of channels No number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	output current	
supplied active power / typical product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	rated value	1.6 A
product feature / parallel switching of channels number of parallel-switched equipment resources / for increasing the power efficiency in percent power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	rated range	0 1.8 A
number of parallel-switched equipment resources / for increasing the power efficiency in percent 86 % power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	supplied active power / typical	86 W
increasing the power efficiency in percent power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	product feature / parallel switching of channels	No
power loss [W] 14 W electrical data / closed-loop control relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	·	0
electrical data / closed-loop control relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	efficiency in percent	86 %
relative overall tolerance / of the voltage 1 % residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	power loss [W]	14 W
residual ripple / maximum 0.05 V voltage peak / maximum 0.2 V	electrical data / closed-loop control	
voltage peak / maximum 0.2 V	relative overall tolerance / of the voltage	1 %
	residual ripple / maximum	0.05 V
relative central precision / of the custout veltage	voltage peak / maximum	0.2 V
relative control precision / or trie output voltage	relative control precision / of the output voltage	
• on slow fluctuation of input voltage 0.2 %	 on slow fluctuation of input voltage 	0.2 %
• on slow fluctuation of ohm loading 0.5 %	 on slow fluctuation of ohm loading 	0.5 %
• load step of resistive load 50/100/50 % / typical 0.5 %	 load step of resistive load 50/100/50 % / typical 	0.5 %
• with rapid fluctuation of the input voltage by +/- 15% / typical 0.3 %		0.3 %
setting time	setting time	

• load step 50 to 100% / typical	0.5 ms
load step 100 to 50% / typical	0.5 ms
electrical data / protection and monitoring	
design of the overvoltage protection / at output	< 60 V
response value current limitation / typical	1.7 A
property of the output / short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
electrical data / safety	
galvanic isolation / between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1
operating resource protection class	Class III
leakage current	
• maximum	3.5 mA
• typical	0 mA
interfaces	
number of electrical connections	
• for power supply	3
• for signaling contact	2
type of electrical connection	0 1 105 05 0
• for signaling contact	Screw terminal 0.5 - 2.5 mm ²
• at input	FE / + / - screw-type terminal 0,5 - 2,5 mm ²
• at output	2x + / 2x - , screw-type terminal 0.5 - 2.5 mm ²
signal inputs/outputs	V
product component / signaling contact	Yes
relay design	Normal open contact (N/O)
operating voltage / of the signaling contacts	a.v.
at DC / rated value	24 V
at DC / maximum	60 V
operational current / of the signaling contacts	0.0.4
• at DC / maximum	0.3 A
• at DC / at 30 V / maximum	0.3 A
design, dimensions and weights width	483 mm
	43.6 mm
height	150 mm
net weight	0.5 kg
product feature / of the enclosure / housing can be lined up	Yes
fastening method	165
19-inch installation	No
• 13-IIICH IIIStallation	
	No
• wall mounting	No
wall mounting35 mm DIN-rail mounting	No Yes
wall mounting35 mm DIN-rail mountingS7-300 rail mounting	No
 wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions	No Yes
 wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature	No Yes No
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation	No Yes No -40 +70 °C
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage	No Yes No -40 +70 °C -40 +85 °C
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature	No Yes No -40 +70 °C -40 +85 °C
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage during transport note relative humidity / at 25 °C / without condensation / during operation / maximum	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 %
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage during transport note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage during transport note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 %
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage during transport note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature • during operation • during storage • during transport • note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature during operation during storage during transport note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard for safety / from CSA and UL	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20 cULus listed (UL508, CSA C22.2 No. 107.1)
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature • during operation • during storage • during transport • note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20 cULus listed (UL508, CSA C22.2 No. 107.1) EN 61000-6-4: 2007
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature • during operation • during storage • during transport • note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference • for interference immunity	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20 cULus listed (UL508, CSA C22.2 No. 107.1) EN 61000-6-4: 2007 EN 61000-6-2
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature • during operation • during storage • during transport • note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference • for interference immunity certificate of suitability	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20 cULus listed (UL508, CSA C22.2 No. 107.1) EN 61000-6-4: 2007 EN 61000-6-2 EN 61000-6-4: 2007
wall mounting 35 mm DIN-rail mounting S7-300 rail mounting ambient conditions ambient temperature • during operation • during storage • during transport • note relative humidity / at 25 °C / without condensation / during operation / maximum environmental category / according to IEC 60721 protection class IP standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference • for interference immunity	No Yes No -40 +70 °C -40 +85 °C -40 +85 °C Convection 95 % Climate class 3K3, without condensation IP20 cULus listed (UL508, CSA C22.2 No. 107.1) EN 61000-6-4: 2007 EN 61000-6-2

• according to IEC 81346-2:2019

TCB

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	595.15 kg
during manufacturing	62.11 kg
 during operation 	532.64 kg
after end of life	0.4 kg

internet link

• to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to web page: SiePortal • to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://support.industry.siemens.com/cs/ww/en/view/109766358

https://www.siemens.com/tstcloud

https://www.siemens.com/simatic-net

https://sieportal.siemens.com/

https://www.automation.siemens.com/bilddb

https://www.siemens.com/cax https://support.industry.siemens.com

security information

security information

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Approvals / Certificates

General Product Approval







China RoHS





Environment



last modified:

4/3/2025