imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Extract from the online catalog

STEP-PS/1AC/24DC/2.5

Order No.: 2868651



http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2868651

DIN rail power supply of 24 V DC/2.5 A, primary switched, single phase.

Commercial data

EAN	4046356163224
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	0.322 KG
Catalog page information	Page 581 (IF-2009)

Product notes

WEEE/RoHS-compliant since: 03/27/2007

http://

www.download.phoenixcontact.com Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Product description

STEP POWER power supply units – for building automation

The new STEP POWER generation of compact power supply units is particularly suitable for installation distributors and flat control panels thanks to its design. The power supply units are available with 24 V DC output voltage in four performance classes and widths and with the special voltages 5, 12, 15 and 48 V DC. Their high degree of efficiency and the low standby losses make for high power efficiency.

Technical data

Input data	
Nominal input voltage	100 V AC 240 V AC
AC input voltage range	85 V AC 264 V AC
DC input voltage range	95 V DC 250 V DC
AC frequency range	45 Hz 65 Hz
DC frequency range	0 Hz
Current consumption	Approx. 0.8 A (120 V AC)
	Approx. 0.4 A (230 V AC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 100 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Permissible backup fuse	6 A (characteristic B)
	10 A (characteristic B)
	16 A (characteristic B)
Name of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±1%
Setting range of the output voltage	22.5 V DC 29.5 V DC (> 24 V constant capacity)
Output current	2.5 A (-25°C 55°C)
	2.75 A (-25 °C 40 °C permanent)
	4.4 A (maximum output current)
Derating	From +55°C to 70°C: 2.5% per Kelvin
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Control deviation	< 1 % (change in load, static 10% 90%)
	< 2 % (change in load, dynamic 10% 90%)
	< 0.1 % (change in input voltage ±10%)
Residual ripple	< 50 mV _{PP} (with nominal values)
Peak switching voltages nominal load	< 50 mV $_{\rm PP}$ (with nominal values)
Maximum power dissipation idling	< 0.7 W
Power loss nominal load max.	9.9 W

General data

Width	72 mm
Height	90 mm
Depth	61 mm
Weight	0.3 kg
Operating voltage display	LED green
Efficiency	> 86 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)
Degree of protection	IP20
Class of protection	Ш
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
Ambient temperature (operation)	-25 °C 70 °C (> 55° C derating)
Ambient temperature (storage/transport)	-40 °C 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, no condensation)
Mounting position	Horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 3 cm
Electromagnetic compatibility	Conformance with EMC guideline 2004/108/EC and for low- voltage guideline 2006/95/EC
Immunity to interference	EN 61000-6-2:2005
Standard – Electrical equipment of machines	EN 60204
Standard - Safety of transformers	IEC 61558-2-17
Standard - Electrical safety	IEC 60950/VDE 0805 (SELV)
Shipbuilding approval	Germanischer Lloyd (EMC 1), ABS, LR, RINA, NK, DNV, BV
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	IEC 60950 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
Standard – Protection against electric shock	DIN 57100-410
Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment	DIN VDE 0106-101
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Certificate	CB Scheme

UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	NEC Class 2 as per UL 1310
	UL listed ANSI/ISA-12.12.01 class I, division 2, groups A, B, C, D

Connection data, input

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	6.5 mm
Screw thread	M3

Connection data, output

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	6.5 mm

Signaling

Output name	LED status indicator
Status display	"DC OK" LED green
Note on status display	U _{OUT} > 21.5 V: LED lights up

Certificates / Approvals



Certification

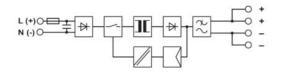
ABS, BV, CB, CUL, CUL Listed, DNV, GL, LR, NK, UL, UL Listed

Certification Ex:

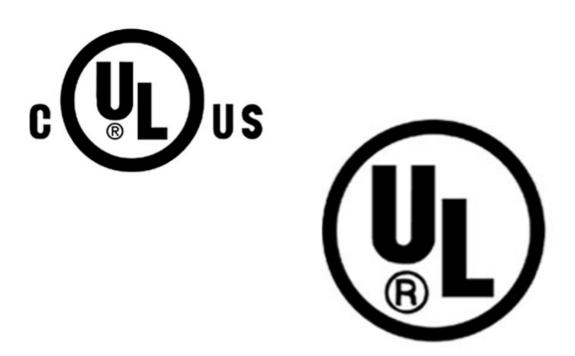
CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



Approbationslogos (EX-Bereich)



Address

PHOENIX CONTACT Inc., USA 586 Fulling Mill Road Middletown, PA 17057,USA Phone (800) 888-7388 Fax (717) 944-1625 http://www.phoenixcon.com



© 2010 Phoenix Contact Technical modifications reserved;