1280mA KNX Power Supply

KNX-40E series

SELV

Features

- **EIB / KNX power supply with integrated choke**
- Compact size with 4SU width(72mm)
- Safety extra low voltage(SELV)
- Suitable for TP1-256
- 180~264VAC input
- Protections: Short circuit / Overload(short-circuit-proof)/ Over voltage
- Cooling by free air convection
- Isolation class Ⅰ
- LED indicator for normal operation, bus reset and bus overload
- Monitoring of output voltage,output current,bus traffic load and device temperature
- Provide Wide variety of diagnostic and logic function
- Over Voltage category Ⅲ
- 3 years warranty

Applications

- Intelligent home control
- Modern building automation
- Lighting control
- HVAC system
- Security system
- Blinds and shutters
- Monitoring systems
- Energy management
- Alarm monitoring

Description

MEAN WELL,the leading standard power supply manufacturer,continues to promote the buiding automation technology for making a green and sustainable society.After the launch of KNX-20E-640,the new KNX power supply KNX-40E-1280(D) is proudly introduced.

The KNX Power Supply KNX-40E-1280(D) is a 1280mA power supply with high efficiency and a small footprint of only 4SU(72mm).The device has a KNX bus choke output and additional output for auxiliary power.The -30~+70°C wide temperature operating range can meet all kinds of applications.For troubleshooting,monitoring purpose,output voltage,output current,bus traffic,device temperature and other actual measurement values can be sent via KNX.LED indicators are used in case of normal operation,overload conditions and RESET operation.It is perfectly suitable to power up any products labeled with the KNX trademark.

Model Encoding

KNX - 40 E - 1280 ☐

- Blank: basic function； D: with diagnostic function
- Output current
- Output wattage
- Series name

Type	Function	Note
Blank	1280mA KNX Power Supply	In Stock
D	1280mA KNX Power Supply with Diagnostic function	In Stock

1280mA KNX Power Supply

KNX-40E series

SPECIFICATION

MODEL		KNX-40E-1280 ☐
OUTPUT	BUS OUTPUT VOLTAGE WITH CHOKE	Bus,30V (KNX black/red terminal block)
	DC OUTPUT VOLTAGE WITHOUT CHOKE	30V(Additional output for ancillary power)
	RATED CURRENT	1280mA
	RATED POWER	38.4W
	RIPPLE & NOISE (max.) Note.2	100mVp-p
	SHORT CIRCUIT CURRENT	2.8A
	SETUP, RISE TIME	1000ms, 50ms/230VAC at full load
	AC MAINS FAILURE BACK-UP TIME (Typ.)	200ms/230VAC at full load
INPUT	VOLTAGE RANGE	180 ~ 264VAC 176 ~ 280VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.) Note.3	86%
	AC CURRENT (Typ.)	0.5A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=1200μs measured at 50% Ipeak)/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	205 ~ 235% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is remaved
	OVER VOLTAGE	33 ~ 35V
		Protection type : Hiccup mode, recovers automatically after fault condition is remaved
FUNCTION	RESET	Physical button for the bus reset: Blank type:Press the RESET button for at least 20 seconds to reset the KNX Bus D type:Press the RESET button once,it will reset the KNX Bus last for 20 seconds automatically
	LED INDICATORS	Please refer to the “Explanation of LED Status”
	CHOKE	One integrated choke
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing
	VIBRATION TYPE OF PROTECTION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
	TYPE OF PROTECTION	IP20 design
	OVER VOLTAGE CATEGORY	Ⅲ ,According to EN61558, EN50178,altitude up to 2000 meters
SAFETY & EMC (Note 4)	SAFETY STANDARDS	EN61558-1,EN61558-2-16 ; EN50491-3 approved
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to EN50491-5-2,-5-3;EN61000-3-2,-3-3
	EMC IMMUNITY	Compliance to EN50491-5-2,-5-3 ; EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A
OTHERS	MTBF	487.4K hrs min. Telcordia SR-332 (Bellcore) 215.6Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	72*90*57mm (W*H*D)
	MOUNTING	35mm mounting rail according to DIN EN60715
	PACKING	0.328Kg ; 48pcs/16.4Kg/1.02CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Measure before Choke. 3. Efficiency before choke. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.” (as available on http://www.meanwell.com) 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).	