



■ Features

- EIB / KNX power supply with integrated choke
- Compact size with 3U(54mm) width
- 180~264VAC input
- Protections: Short circuit / Overload(short-circuit-proof) / Over voltage
- Cooling by free air convection
- Isolation class I
- No load power consumption <0.5W
- LED indicator for normal operation, bus reset and bus overload
- Installed on DIN rail TS-35/7.5 or 15
- 100% full load burn-in test
- 3 years warranty

■ Applications

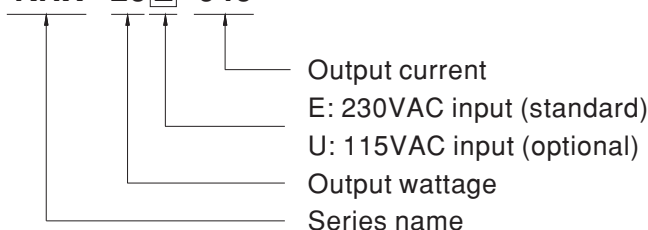
- Intrlligent home control
- Modern building automation
- Lighting control
- HVAC system
- Security sytem
- Blinds and shutters
- Monitoring systems
- Energy management

■ Description

The power supply with 640mA is intended for use in KNX installations of smart homes and buildings. It resolves the problems of isolated devices by ensuring that all components communicate via one common standard. The unit has single output with integrated choke ready to use for KNX bus. The output is made via standard KNX bus connection and equipped with a overload or short-circuit protection. The unit can be mounted on a standard 35 mm DIN rail while the data rail is not required. It features with slim design from which the width is only 54 m(3 units) to ensure the maximal space usage inside the cabinet. Three LED indicate the operating status shown on the panel of unit where the reset button is also equipped to disconnect the bus line from the power supply and the bus devices connected to this bus line are returned to their initial state.

■ Model Encoding

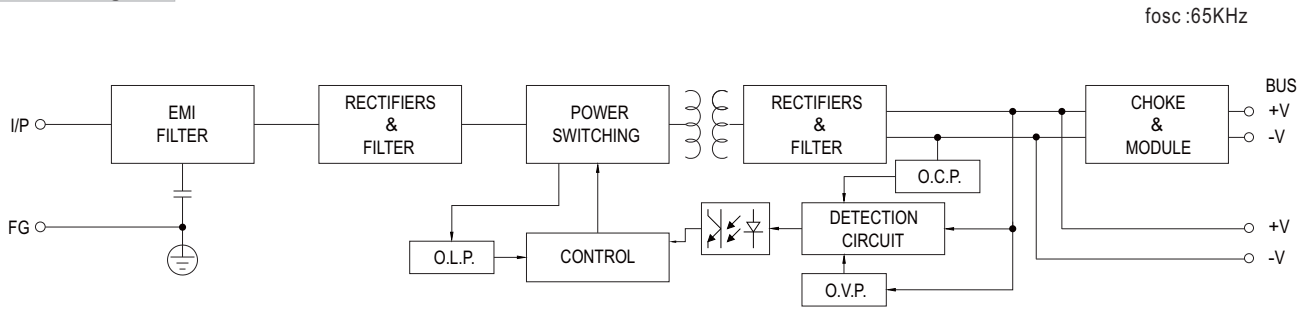
KNX - 20E - 640



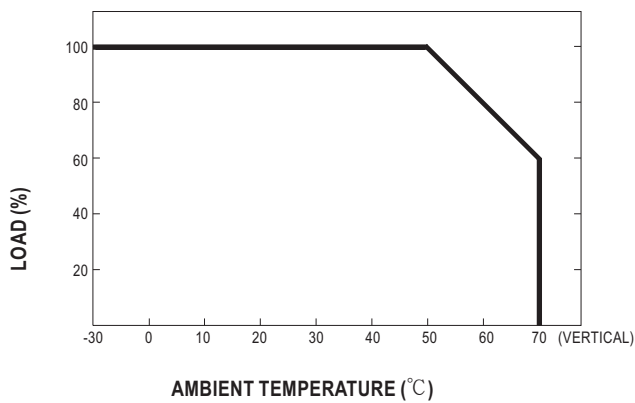
**SPECIFICATION**

MODEL		KNX-20E-640
OUTPUT	DC VOLTAGE	30V
	RATED CURRENT	640mA
	RATED POWER	19.2W
	RIPPLE & NOISE (max.) Note.2	100mVp-p
	SHORT CIRCUIT CURRENT	1.4A
	SETUP, RISE TIME	1000ms, 50ms/230VAC at full load
	HOLD UP TIME (Typ.)	200ms/230VAC at full load
INPUT	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.) Note.3	86%
	AC CURRENT (Typ.)	0.22A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	205 ~ 235% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	33 ~ 35V Protection type : Shut down o/p voltage, re-power on to recover
FUNCTION	RESET	Button
	DISPLAY	LED indicators: Normal (Green) ; OverLoad / Short (Red) ; Reset (Red)
	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
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 4)	SAFETY STANDARDS	EN61558-1, EN61558-2-16(EN50491-3) approved
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION	Compliance to EN50491-5-1, -5-2, -5-3
	EMC IMMUNITY	Compliance to EN50491-5-1, -5-2, -5-3, heavy industry level, criteria A
OTHERS	MTBF	K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	54*90*55mm (W*H*D)
	MOUNTING	35mm mounting rail according to DIN EN60715
	PACKING	0.215Kg ; 60pcs/13.9Kg/0.97CUFT
NOTE	<ol style="list-style-type: none">All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.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.Efficiency before choke.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)	

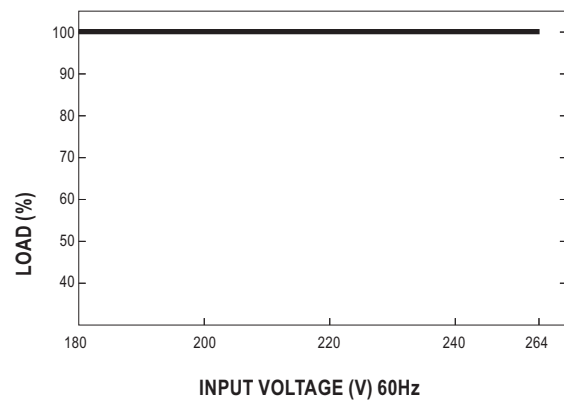
Block Diagram



Derating Curve

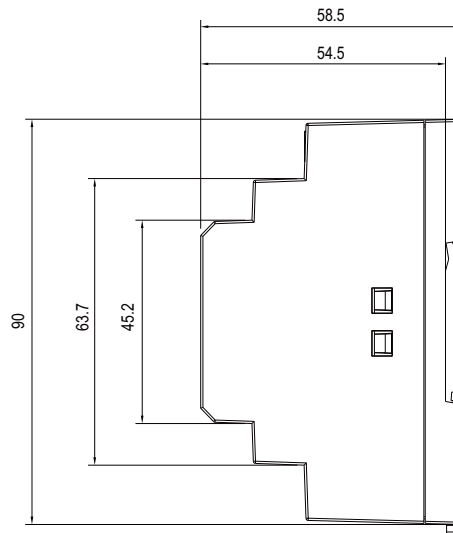
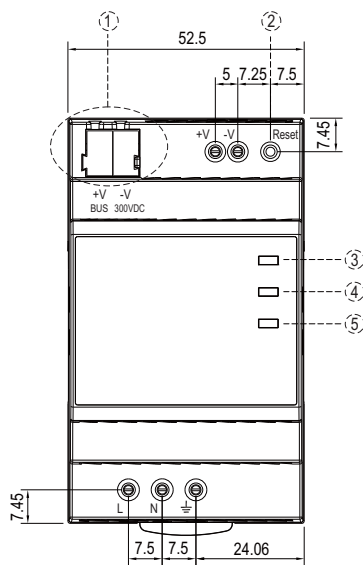


Static Characteristics

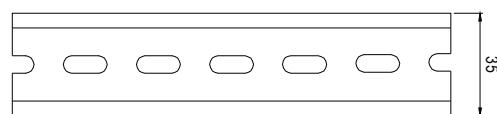


Mechanical Specification

Case No. KNX-20 Unit:mm



1	KNX bus terminals (Red +, Black:-)
2	Reset button
3	Power On (Green)
4	Reset (Red)
5	OLP (Red)



ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>