Datasheet
PS-K640 – KNX power supply
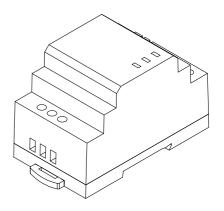
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FEATURES

The PS-K640 is a compact 640 mA KNX power supply with integrated choke which provides the safety extra-low voltage required for KNX installations. A secondary (unchoked) 30 VDC power output is available for devices that need an auxiliary power supply in addition to the power provided via the KNX bus.

- KNX power supply with integrated choke
- Ancillary 30 VDC power output (unchoked)
- Safety extra-low voltage (SELV)
- 640 mA rated output current
- 230 VAC input, 50/60 Hz
- Short-circuit, overload, and over voltage protection
- KNX bus RESET button
- LED indicators for normal operation, bus reset, and overload
- 35mm DIN-rail mounting
- Ultra-compact form factor (3 DIN rail units)

TECHNICAL SPECIFICATIONS

Mechanical	Form factor	35 mm DIN-rail mount enclosure (EN 50022)
	Enclosure material	Plastic ABS – V0
	Degree of protection	IP20 (DIN EN 60529)
	Dimensions	52.5 x 90 x 58.5 mm
	Weight	215 g
Environment	Storage temperature	-40..85 ºC
	Operating temperature	-30..50 ºC -30..70 ºC @ 60% load
	Relative humidity	20..95% (non-condensing)
Input	Supply voltage	180-264 VAC, 47-63 Hz
	Power consumption	Typ. 0.22A @ 230 VAC
	Connection	Screw terminals
	Recommended wiring	Conductor section 0.5 to 4 mm²

Output	KNX bus output	Voltage	30 VDC SELV (choked)
		Connection	Standard KNX TP1 bus connector
	Ancillary output (aux)	Voltage	30 VDC SELV (unchoked)
		Connection	Screw terminals
		Rec. wiring	Conductor section 0.5 to 4 mm²
	Rated current (I_{MAX})		$I_{BUS} + I_{AUX} \leq 640$ mA
	Rated power		19.2 W
	AC failure backup time		200 ms at full load
	Overload protection		200% rated output power
	Over voltage protection		33 VDC

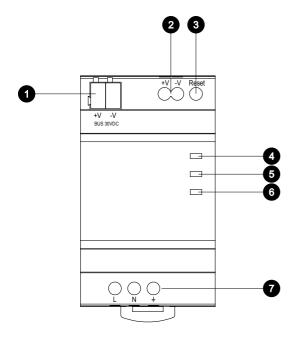|		
Control and indicators	Buttons	KNX bus RESET button
	LED indicators	ON (green): Normal operation RESET (red): RESET button pressed $I > I_{MAX}$ (red): Overload / short circuit
Compliance	Safety standards	EN61558-1, EN61558-2-16
	EMC emissions	EN50491-5-2, 5-3, -3 EN61000-3-2, -3-3
	EMC immunity	EN50491-5-2, 5-3 EN61000-4-2, 3, 4, 5 ,6, 8, 11

All parameters are measured at 230 VAC input, rated load, and 25ºC ambient temperature, unless otherwise stated.
Specifications subject to change without notice.

ELEMENTS

1. KNX bus connector
2. Ancillary 30 VDC output
3. RESET button
4. ON LED indicator
5. RESET LED indicator
6. Overload / short-circuit LED indicator
7. External (mains) power supply

IMPORTANT SECURITY ADVICE

- This device is designed exclusively for use in indoor environments; it should be installed on a 35mm DIN rail inside an electrical cabinet or electrical distribution box
- Make sure that there is adequate ventilation in the installation location to avoid overheating
- Disconnect mains power during installation
- Once installed, the device should not be accessible from outside
- Do not open the device! Faulty or defective units must be returned to the manufacturer for repair or replacement

☞ **IMPORTANT:** *Only qualified electricians should install, service, or manipulate this equipment. Existing regulations for the prevention of accidents must be observed, as well as any national or local codes and regulations and standard safety precautions.*