Panasonic

Building Automation Systems

KNX Power Supply

- WRKT20305NC I PS132 - 320mA
- WRKT20315NC I PS164 - 640mA

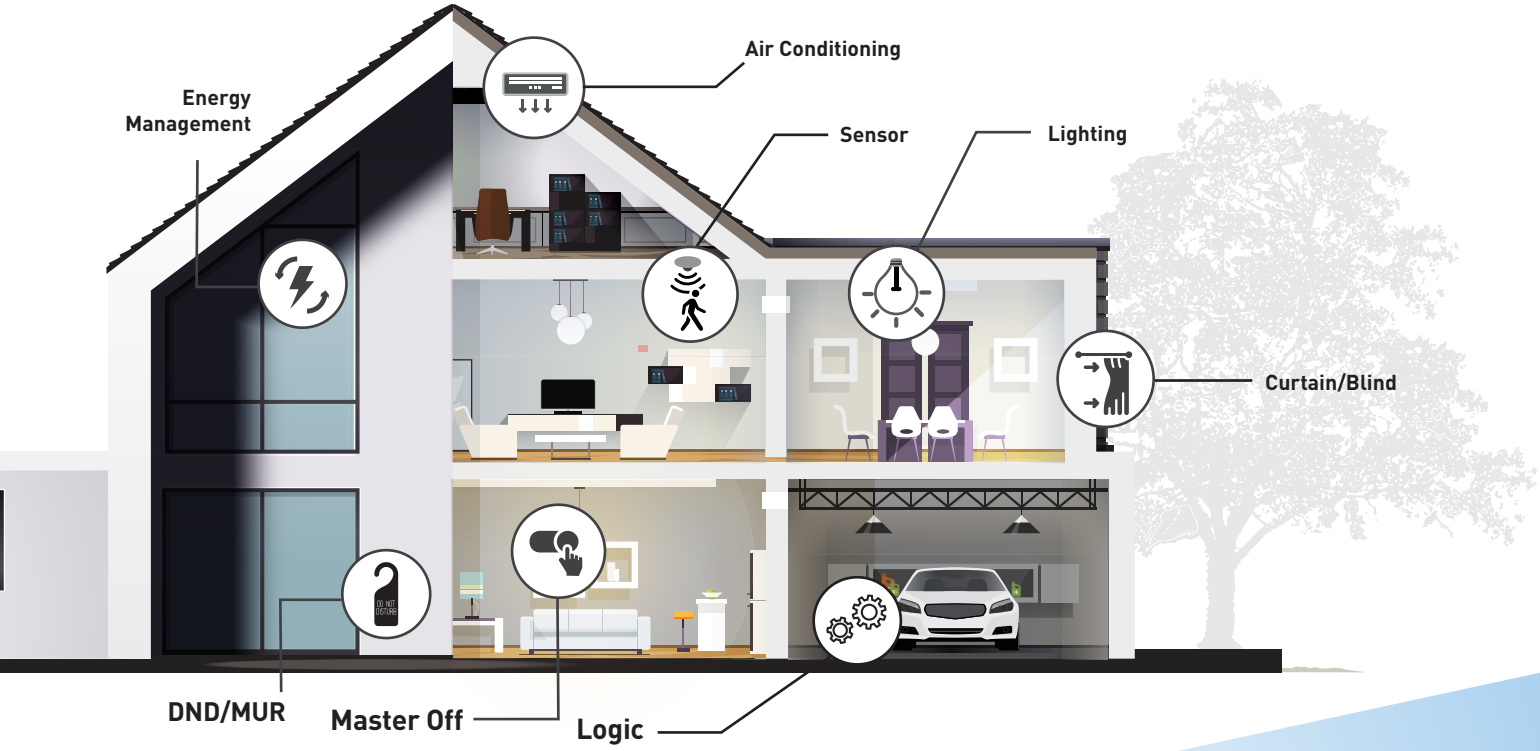


PRODUCT DESCRIPTION

Panasonic KNX Power Supplies deliver and monitor the KNX bus line voltage for safe and stable operation. Two versions for busloads of 320 and 640 mA are available, each having one integrated choke output to supply KNX bus line and one auxiliary unchoked output for additional power requirements . Both choke and unchoked outputs are overload and short circuit protected. Status LED indicates the normal operation and overload conditions. AC mains input has line over protection against transient main voltage fluctuations. Requirements of Directives EMC, RoHS and LVD are met and standards for residential and commercial environments are fulfilled. Panasonic KNX Power Supplies are VDE-certified.

Main Features:

- Line Over Voltage Protection (AC mains input)
- Overload and Short Circuit Protection (Outputs)
- Compact DIN4 Size (4 modules at 18 mm)
- LED Indication (Normal/Overload)
- Additional Unchoked Auxiliary Output
- VDE-Certified

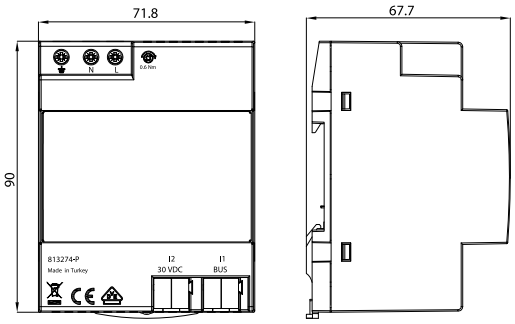


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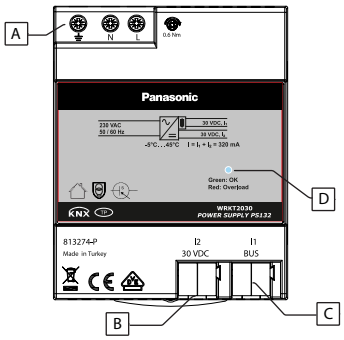
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DIMENSIONS



CONNECTORS AND LED DESCRIPTION



A. AC Supply voltage terminals
B. 30 VDC output connector
C. BUS (KNX) TP output connector
D. Status LED
Status LED States:
Green: BUS & 30 VDC are OK.
Red:
For 320 mA IOUT > 500 mA (Overload)
For 640 mA IOUT > 900 mA (Overload)

TECHNICAL SPECIFICATIONS

Power input	
Mains voltage	230 VAC @50/60Hz
Leakage loss (open-circuited)	0.85W
Leakage loss (normal)	for 320 mA: 3.5 W, for 640 mA: 4.9W
Power consumption (normal)	for 320 mA: 13.9 W, for 640 mA: 25.6 W
Power consumpt.(max.,overload)	for 320 mA: 20.4W @500mA for 640 mA: 35.3W @900mA
Housing	
Dimensions (HxWxD)	90 x 71.8 x 65.8 mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Width in space units	4 modules at 18 mm
AC supply input connection	Single wire: 1.5...4mm2 or 2x1.5...2x2.5mm2 Stranded wire without ferrule: 0.75...4mm2 Stranded wire with ferrule: 0.5...2.5mm2 max. torque: 0.6Nm
KNX bus connection	KNX TP connector (red/black)
AUX output connection	KNX TP connector (white/yellow)
Weight	217.3gr

Power output	
BUS output voltage	28…31 V DC (SELV)
30 VDC output voltage	28…31 V DC (SELV)
Rated current (BUS + 30 VDC)	320 mA, 640 mA
Mains failure bridging time	> 100 ms
Short circuit current (BUS + 30 VDC)	for 320 mA: 700 mA for 640 mA: 1300 mA
Electrical safety	
Pollution degree (IEC60664)	2
Protection type (IEC60529)	IP20
Overvoltage category (IEC60664)	III
Certification (ISO/IEC14543-3)	VDE-certified
CE Marking	
EU Directives	In compliance with EMC and LVD guidelines
Environmental conditions	
Operating temperature	5…+45 °C
Storage temperature	-10...+55 C
Ambient humidity	5…93 % (non-condensing)