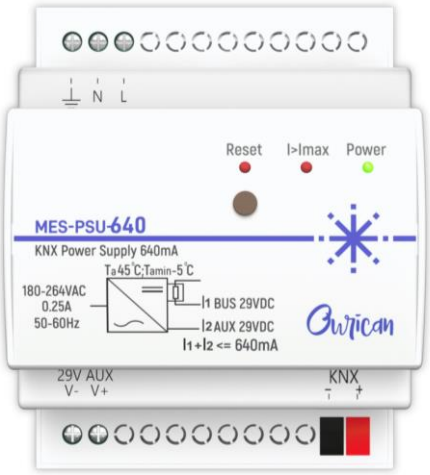
KNX POWER SUPPLY – Technical Documentation

MES-PSU-640



Features:

- 180-264VAC 50 Hz Input voltage
- KNX Bus Supply with additional 29V DC Aux Supply
- Low standby power consumption, high efficiency
- Output short circuit, Over-current, Over-voltage protection
- KNX Bus Reset function
- LED indicators for working status, over-load and reset.
- Din-rail mount Assembly
- Dimension: 71 (L) X 90.5 (W) X 62 (H) mm [4 DIN Units]
- High I/O isolation test voltage up to 4000 VAC
- SELV
- Integrated KNX Choke
- CE Mark*

Input Specifications					
Item	Operating condition	Min.	Typ.	Max.	Unit
Input Voltage range	AC input	180	--	264	VAC
	DC input	250	--	370	VDC
Input Voltage Frequency		50	--	60	Hz
Input Current	230VAC	--	--	0.25	A
Inrush Current	230VAC (Cold start)	--	--	24	A

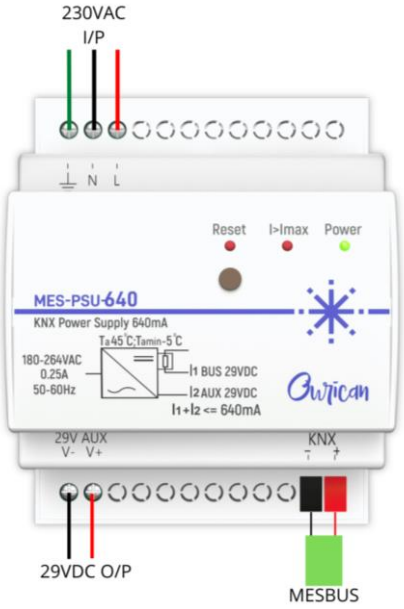
Output Specifications					
Item	Operating condition	Min.	Typ.	Max.	Unit
Output Current Range		0	--	640	mA
Output Voltage Range	Full load range	--	±5	--	%
Line Regulation	Rated load	--	±1	--	
Load Regulation	Primary output	--	±6	--	
	Secondary output	--	±4	--	
Ripple & Noise	20MHz bandwidth (peak to peak value)	--	80	110	mV
Hold-up Time	230VAC	150	200	--	ms
Short Circuit Protection	Recover time <5s after short circuit is removed	Constant current, long term short			

General Specifications						
Item		Operating condition	Min.	Typ.	Max.	Unit
Isolation test	Input – ⎓	Electric strength test for 1min., leakage current <10mA	2000	--	--	VAC
	Input – ⎓		4000	--	--	
	Input – Output		1250	--	--	
Insulation Resistance	Input – ⎓	Ambient temperature: 25±5°C Relative humidity: less than 70% At 500VDC	100	--	--	MΩ
	Input – ⎓		100	--	--	
	Input – Output		--	--	--	
Operating Temperature			-5	--	+45	°C
Storage Temperature			0	--	+70	
Storage Humidity		Non-condensing	--	--	95	%RH
Safety Class			Class II			
MTBF			>300,000h			

Function:

1. RESET: To reset the KNX Bus, long press the Reset button for 2s.
2. LED Indicator: Power: Green (LED) indicates normal operation; Reset: Red (LED) indicates reset; I>Imax: Red (LED) indicates output overload or short circuit.
3. Integrated KNX Choke

Wiring Diagram



⚠ SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations.
- Do not connect the mains voltage nor any other external voltage to any point of the MESBUS connector and Auxiliary output; it would represent a risk for the entire system. The facility must have enough insulation between the mains (or auxiliary) voltage and the MESBUS or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.
- Installation of a 10 A mini-circuit-breaker is recommended. To prevent accidents, it must remain open in case of manipulation of the device.