

## KNX Data transfer

### Instruction-Ver2.0

LC-PS1280/2



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## 1 Product Overview

The EIB/KNX bus power supply is used to provide and monitor the voltage of the EIB/KNX system. The output has two terminals, including 1 KNX bus output for EIB bus power supply and signal transmission; 1 30VDC auxiliary output, which can provide a 30VDC power supply voltage to the terminal device; the bus connection end has integrated a reactor inside the power supply; if the 30VDC auxiliary power supply end is connected to an external reactor, it can also be used as a bus power supply end, and also has a signal transmission function.

In order to facilitate installation in the distribution box, the KNX bus power supply is designed as a modular installation device that can be installed on a 35 mm DIN rail. The device uses screw terminals to realize 220VAC voltage input and auxiliary power output connection, and the EIB bus connection is directly connected through the EIB terminal (red/black).

The power supply can be reset by pressing the reset button on the device. During the reset, the bus power supply end of the power supply is powered off, and other devices connected to the bus return to their original state.

### Functional description:

- (1) Meet the power supply requirements of KNX/EIB bus devices;
- (2) With short circuit and overcurrent protection;
- (3) Load status indication;
- (4) System reset function;
- (5) Ripple less than 150mV

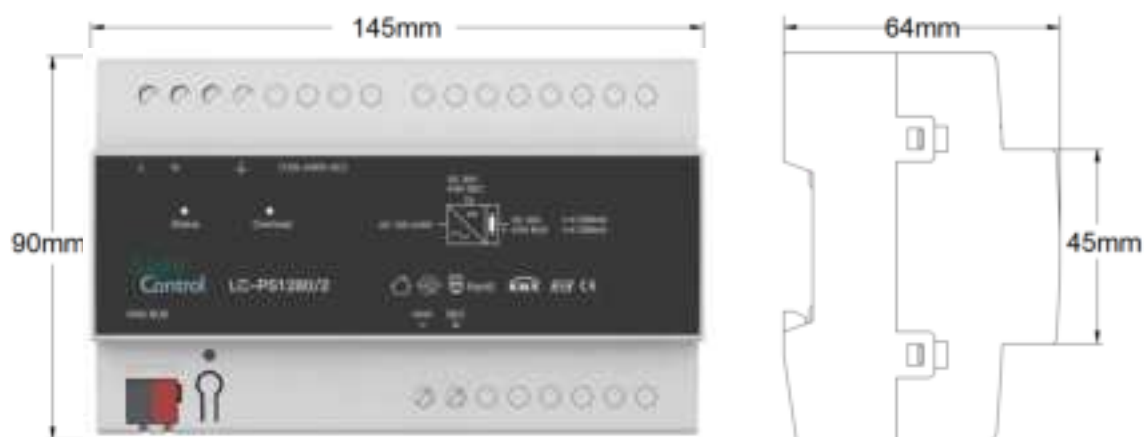
## 2 Parameters

Input Voltage	100-240VAC
Input Current	1.6A/220VAC
Frequency	50-60Hz
Efficiency	87%
KNX bus output	21-30V DC, 1 loop belt reactor
Auxiliary power output	30V DC, 1 loop No reactor
Bus output current	$I_1 \leq 1280\text{mA}$ , Short circuit protection
Auxiliary output current	$I_2 \leq 1280\text{mA}$
Bus output power	$\leq 38.4\text{W}$

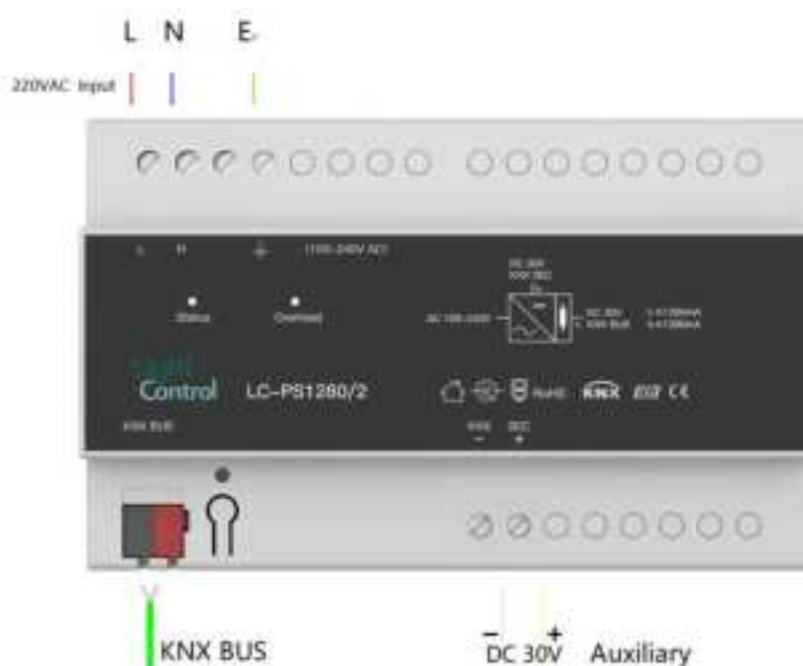
Auxiliary output power	≤38.4W
Output voltage accuracy	±5%(KNX), ±1%(AUX)
Power-off maintenance time	100ms/230VAC
Overload protection	2.65~3A, Hiccup protection, automatic recovery
Output overvoltage protection	33~35V DC
Dimension (Lx W x H)	145mmX90mmX64mm
Shell material	PA66
Weight (approx.)	About 470g
Installation	35mm DIN
Operating temperature	-20°C...+ 50°C
Storage temperature	- 25°C...+ 55°C
Transport temperature	- 25°C...+70°C

## 3 Dimensional drawings and wiring diagrams

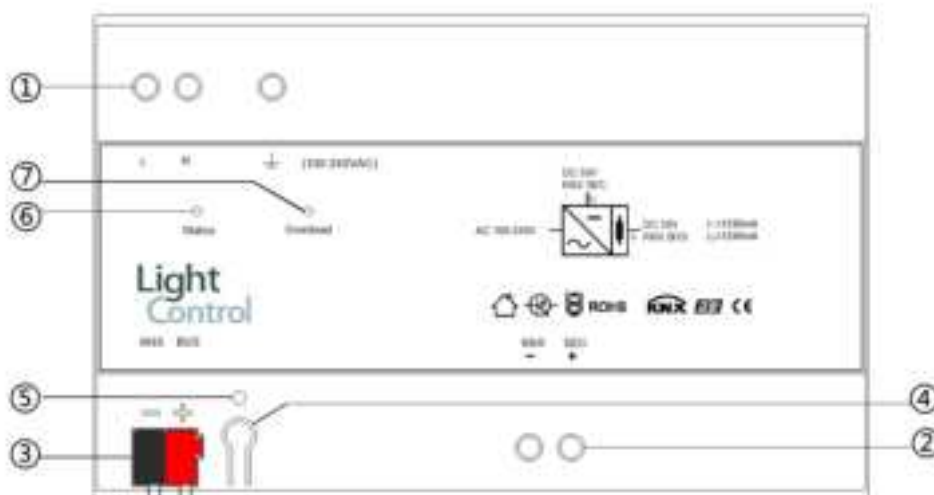
### 3.1 Dimension



### 3.2 Wiring



## 4 Product Operation Instructions



- ① Description: 100~240VAC power connection port, wires with a diameter of 0.2-4mm<sup>2</sup> can be connected;
- ② Description: Auxiliary power supply 30V DC output connection port, yellow wire connected to "+", white wire connected to "-";
- ③ Description: KNX bus power supply output port, KNX bus access, red wire connected to "+", black wire connected to "-";
- ④ Description: Reset button, short press to enter the reset operation, used for KNX bus power supply re-output;
- ⑤ Description: Reset indicator, the indicator light is red, then the bus reset operation is performed;

- ⑥ Description: Status is the power supply working status indicator, green status LED, when the status LED is always on, it means that the power supply is working normally;
- ⑦ Description: Overload is the overload protection indicator, when the bus output current is overcurrent or the bus is short-circuited, the LED indicator flashes red;

## **5 Power supply operation test**

After the bus power supply is correctly installed, turn on the main power supply and supply power to the bus power supply. At this time, the Status indicator on the device is on and the other lights are off, indicating that the bus power supply can operate normally.

## **6 Safe use and maintenance**

- (1) Read all instructions carefully before use.
- (2) Create a well-ventilated environment.
- (3) During use, pay attention to moisture, shock and dust prevention.
- (4) Do not expose to rain, other liquids or corrosive gases.
- (5) If the machine is damp or invaded by liquid, it should be dried in time.
- (6) If the machine fails, please contact professional maintenance personnel or our company.