

Technical Sheet For KNX Power Supply, 640mA

BBPS-02/640.1



The worldwide STANDARD for home and building control

INTRODUCTION

KNX power supply provides and monitors KNX system voltage. The bus connection terminal has integrated choke inside the power supply.

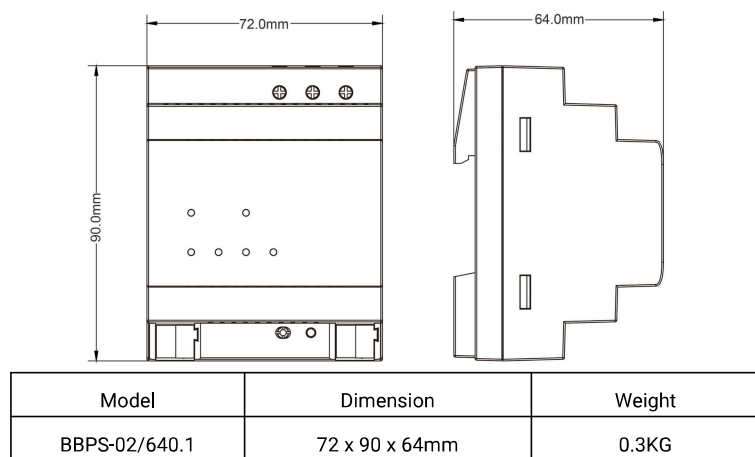
The power supply is connected to the bus line with a bus connection terminal. A reset is triggered by pressing the reset push button and lasts 22 seconds ($>0.5s$, no need to press it all the time). The bus line disconnected from the power supply and the devices connected to this bus line are returned to their initial state. If the line should be disconnected for a longer period, the bus connection terminal must be removed from power supply.

A 30V DC auxiliary voltage is made available via an additional connection terminal, it is connected to an independent reactor and then another bus power terminal is used.

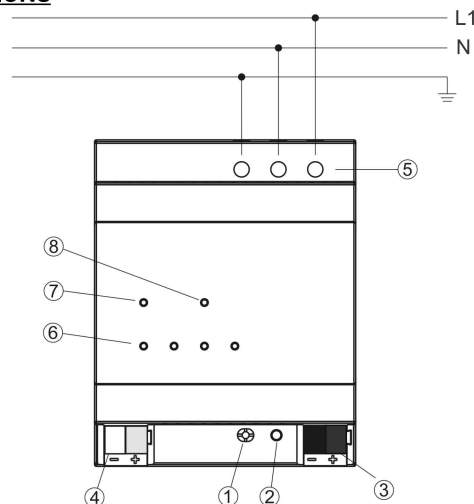
PARAMETERS

Power supply	Input voltage	100-240V AC, 50-60Hz
	Efficiency	$\geq 80\%$
Output	KNX nominal voltage	1 line with integrated choke, 30 +1V/ -2V DC, SELV
	Auxiliary voltage output	1 line without integrated choke, 30 $\pm$ 1V DC, SELV
	KNX nominal current	640mA, short-circuit-proof
	Sustained short-circuit	$< 1.5 A$
Operation /Display	Mains failure buffer time	$>200ms$
	Reset push button	22s delay reset function (Press the button $>0.5s$, to reset the KNX bus voltage)
	Red LED1	Reset the KNX bus
	Green LED2	Normal operation
	Red LED3	Overload/short circuit ($I > I_{max}$)
	Green LED4	Current level1 $0 \leq I < 160(\pm 20)mA$
	Green LED5	Current level2 $160 \leq I < 320(\pm 20)mA$
	Green LED6	Current level3 $320 \leq I < 640(\pm 20)mA$
	Green LED7	Current level4 $640 \leq I < I_{max}$
	KNX output	Bus connection terminal (Red/Black)(0.8mm)
Connection	Auxiliary voltage output	Connection terminal (Yellow/White)
	Input connection terminal	3-screw terminals
	Cable cross-section	Single-core 0.5–2.5mm ²
		Multi-core 0.5–1.5mm ²
Temperature	Operation	$-5^{\circ}C \dots +45^{\circ}C$
	Storage	$-25^{\circ}C \dots +55^{\circ}C$
	Transport	$-25^{\circ}C \dots +70^{\circ}C$
Environment	Humidity	$<93\%$, except dewing
Mounting	On 35mm mounting rail	

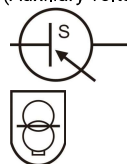
DIMENSIONS



DESCRIPTIONS



- ① Reset push button
- ② Reset indicator LED
- ③ Bus Connection Terminal (KNX output)
- ④ Connection Terminal (Auxiliary voltage output)
- ⑤ Main supply
- ⑥ Green LED (Current level indicator)
- ⑦ Green LED (Output voltage is ok)
- ⑧ Red LED (Overload/short circuit)



Switch mode power supply unit

Non-inherently short-circuit-proof-safety isolating transformer

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm mounting rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!
- Do not operate the device outside the specified technical data (e.g. temperature range)!
- The device may only be operated in closed enclosures (e.g. distribution boards).

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.

适用型号：
BBPS-02/640.1

国际标准的家庭和楼宇控制系统



简介

KNX 电源提供和监视 KNX 的系统电压。总线连接端已经在电源内部集成了电抗器。

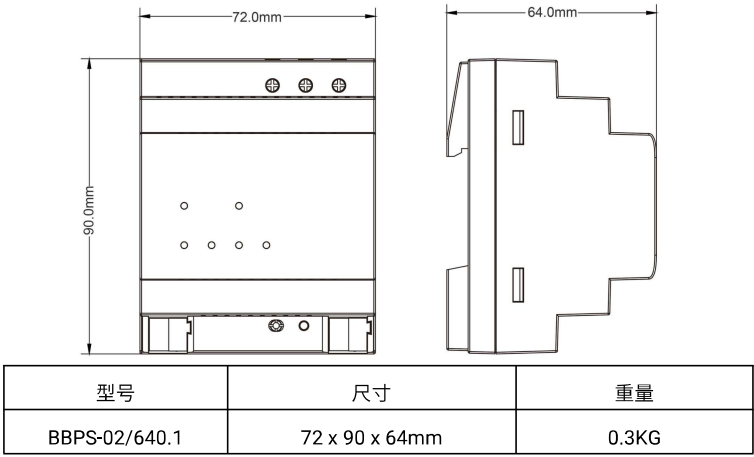
电源通过带有总线连接端的总线连接，当需要复位时，按下复位按钮（>0.5s，无需一直按下），电源将持续复位 22 秒，然后恢复总线供电。总线断电时，连接在总线上的设备都回到它们的最初状态。在总线断电时间比较长的情况下，总线终端应该从电源上拔移。

30V 辅助直流电压可通过另外的连接向终端供电，此输出端外接独立电抗器以后用另外一个总线电源端。

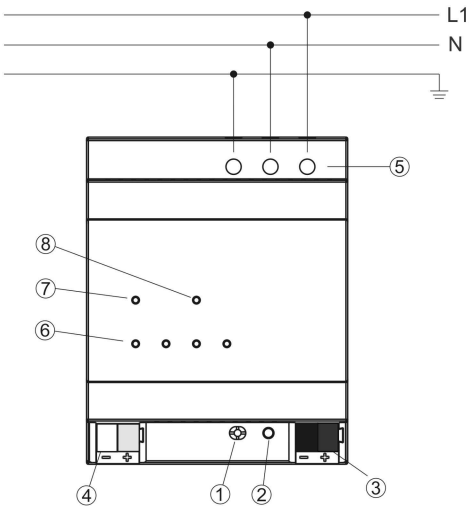
技术参数

电源	输入电压	100-240V AC，50-60Hz
	效率	≥80%
输出	KNX 输出	1 路（带电抗器）30+ 1V/ -2V DC，SELV
	辅助电源 输出	1 路（未带电抗器）30 ± 1V DC，SELV
	额定电流（总输出）	640mA，短路时保护
	持续短路电流	<1.5A
	断电输出缓冲时间	>200ms
操作/指示	复位按钮	22s 延时复位功能(按下复位按键>0.5s，即可实现重置 KNX 总线电压)
	红色 LED1	复位总线
	绿色 LED2	正常操作
	红色 LED3	指示超载或短路 ($I>I_{max}$)
	绿色 LED4	电流等级 1 $0\leq I<160$ (±20) mA
	绿色 LED5	电流等级 2 $160\leq I<320$ (± 20) mA
	绿色 LED6	电流等级 3 $320\leq I<640$ (±20) mA
连接	绿色 LED7	电流等级 4 $640\leq I<I_{max}$
	KNX 电压输出	总线连接端子（红/黑）（直径 0.8mm）
	辅助电压输出端	连接端子（黄/白）
	输入连接端子	3 端子，采用螺丝接线柱连接
温度范围	运行	-5°C ... + 45°C
	存储	-25°C ... + 55°C
	运输	-25°C ... + 70°C
环境条件	湿度	<93%，结露除外
安装	DIN 导轨模块组件，35mm 丁导轨，模块化安装	

尺寸规格



接线图



说明

- ①复位按钮

②复位指示 LED

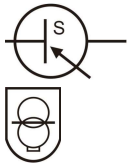
③KNX 电源输出端

④辅助供电输出端
- ⑤交流电源输入端

⑥绿色 LED 指示（电流等级指示）

⑦绿色 LED 指示（输出正常）

⑧红色 LED 指示（超载、短路）



开关模式电源单元

非固有短路安全隔离变压器

安装说明

此设备为了方便快速安装到配电箱或小盒子里面，根据 EN 60715 系列设计成模块化安装设备，能安装在 35 毫米丁导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

- 安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。
- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
 - 不要使器件运行在指定的技术指标之外（例如温度范围）。
 - 器件只可以运行在封闭的环境中（例如配电箱）。
- 当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净,可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。