



MOKO Bluetooth Smart Plug (MK116B)

Datasheet

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1. Product Introduction

MK116B is MOKO MK116 series product, it has the same size and enclosure with MK116 WIFI smart plug, the biggest difference is the wireless communication type.

MK116B plug can turn the connected electrical device into a smart, controllable device using **Bluetooth** connection, and works as a power and energy meter with extremely high accuracy. It can be used for smart home **energy monitoring**, helping you to conserve energy and save money on your bills.

1.1 Key Features

- Built-in MK02D module and MOKO standard firmware
- 80 meters remote control range
- Timer setting
- Active power measuring accuracy is $\pm 0.5\%$
- Measures Historical/Monthly/Daily/Hourly/ energy consumption
- Detects if electrical device Load is connected to it
- Overload protection to improve safety
- Indicates device status using multiple-color LED
- User can modify the device parameters on the mobile APP
- Supports DFU firmware upgrade
- Supports Android & IOS APP SDK for APP developing
- Power metering SDK and schematic diagrams are available for customers to develop firmware
- Australian approval standard: AS/NZS 3112:2017; AS/NZS 3122:2015; AS/NZS 3100:2017; AS/NZS CISPR 32:2015; AS/NZS4268:2017; AS/NZS2772.2

1.2 Applications

- Household appliance control
- Smart home/office energy monitoring
- Industrial electrical devices control
- Smart charging pile
- Energy management
- Work with MOKO gateway to transfer data to your cloud

2. Physical Characteristics

NO.	Item	Remarks
1	Wireless technology	Bluetooth
2	Input voltage	100VAC-240VAC, 50/60HZ
3	Output voltage	100VAC-240VAC
4	Max load	10A, 2400W, continuous load
5	Operation temperature	0 °C~ 40 °C (32°F ~ 104°F)
6	Plug type	Type I
7	Certification	SAA&RCM (In progress)

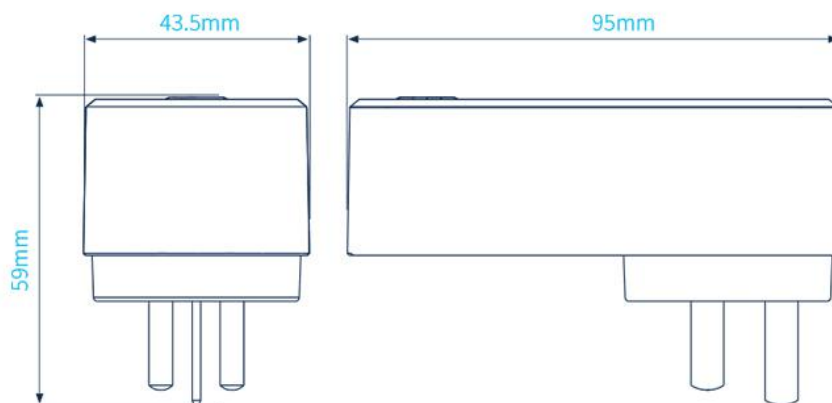
3. Technology Parameters

NO.	Item	Remarks
Hardware	MCU	nRF52832
	Energy metering chip	RN8209C
Software	Firmware	Built-in MOKO standard firmware, also provide schematic diagrams for customers to develop firmware
	APP configuration	Mokoplug available for IOS & Android, also provide APP SDK for customers to develop their own APP
Bluetooth specification	Standard	Bluetooth 4.2
	Frequency	2360MHz - 2500MHz
	Max scanning range	80 meters in open space
	Transmission power	+4 dBm max
	Receiving sensitivity	-96dB in Bluetooth Low Energy mode

4. Indicator & Button Status

Item	Indicator Status	Remark
Bluetooth advertising	Flash blue	
Bluetooth is connected and switch ON	Solid Blue	APP is connected to the device Bluetooth, click button to turn on the switch
Bluetooth is connected and switch OFF	LED OFF	APP is connected to the device Bluetooth, click button to turn off the switch
DFU upgrading	Flash yellow	
DFU upgrade successfully	Solid green	To indicate upgrade result
DFU upgrade failed	Solid yellow	To indicate upgrade result
Overload protection	Flash yellow and blue alternately	When the connected load exceeds the overload value set through APP, device will cut off automatically
Reset energy memory	Flash triple white	Press and hold the button for 3S
Restore factory settings	Flash yellow and blue alternately once	Press and hold the button for 10S

5. Dimensions




Dimensions (Length x Width x Height):
95mm x 43.5mm x 59mm

6. Revision History

Revision	Description	Editor	Date
V1.0	Initial Release	Weiguifen	2020.11.04

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