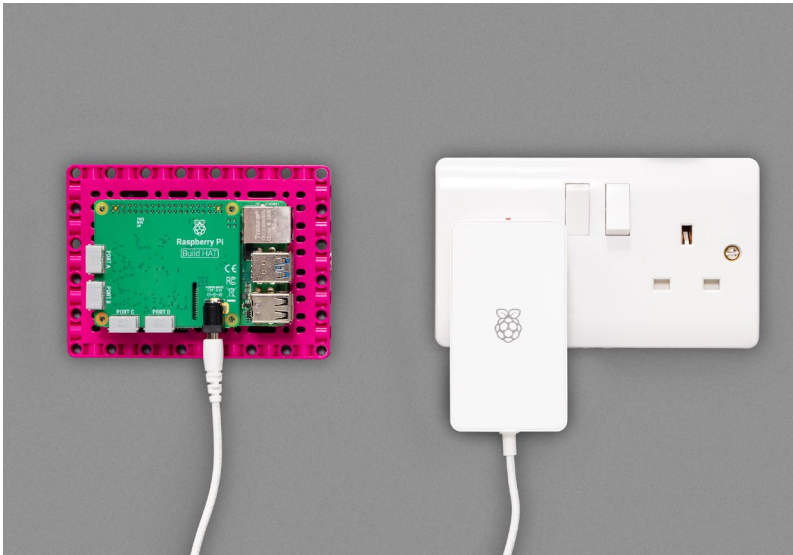




## Overview



Power your Raspberry Pi Build HAT projects with the Raspberry Pi Build HAT Power Supply. This 48W power supply will power the Build HAT and connected LEGO® Technic™ motors, as well as your Raspberry Pi computer.

Compatible with LEGO® Technic™ motors and sensors included in the SPIKE™ Portfolio, the Build HAT combines the power of Raspberry Pi computing with easy building opportunities to help you make creative and robust projects.

## Specification

### Output

Output voltage:	+8.0V DC
Minimum load current:	0.01A
Nominal load current:	6.0A
Maximum power:	48.0W
Load regulation:	±5%
Line regulation:	±5%
Ripple & noise:	200mVp-p
Rise time:	100ms maximum to regulation limits for DC outputs
Turn-on delay:	3000ms maximum at nominal input AC voltage and full load
Protection:	Short circuit protection Overcurrent protection Overvoltage protection
Efficiency:	87.77% minimum (output current from 100%, 75%, 50%, 25%)
Output cable:	1.5m 16AWG
Output connector:	Barrel connector 5.5mm × 2.1mm × 11mm Centre positive

### Input

Voltage range:	100-240Vac (rated) 96-264Vac (operating)
Frequency:	50/60Hz ±3Hz
Current:	1.2A maximum
Power consumption (no load):	0.1W maximum
Inrush current:	No damage shall occur and the input fuse shall not blow

## Plug styles

Part number	Product number	Colour	Plug Style	Plug Type
KSA-48E-080600D5	SC0747	White	US	Type A
KSA-48E-080600D5	SC0748	White	Europe, India	Type C
KSA-48E-080600D5	SC0746	White	UK	Type G
KSA-48E-080600D5	SC0749	White	Australia New Zealand China	Type I

## Environment

Operating ambient temperature 0–40°C

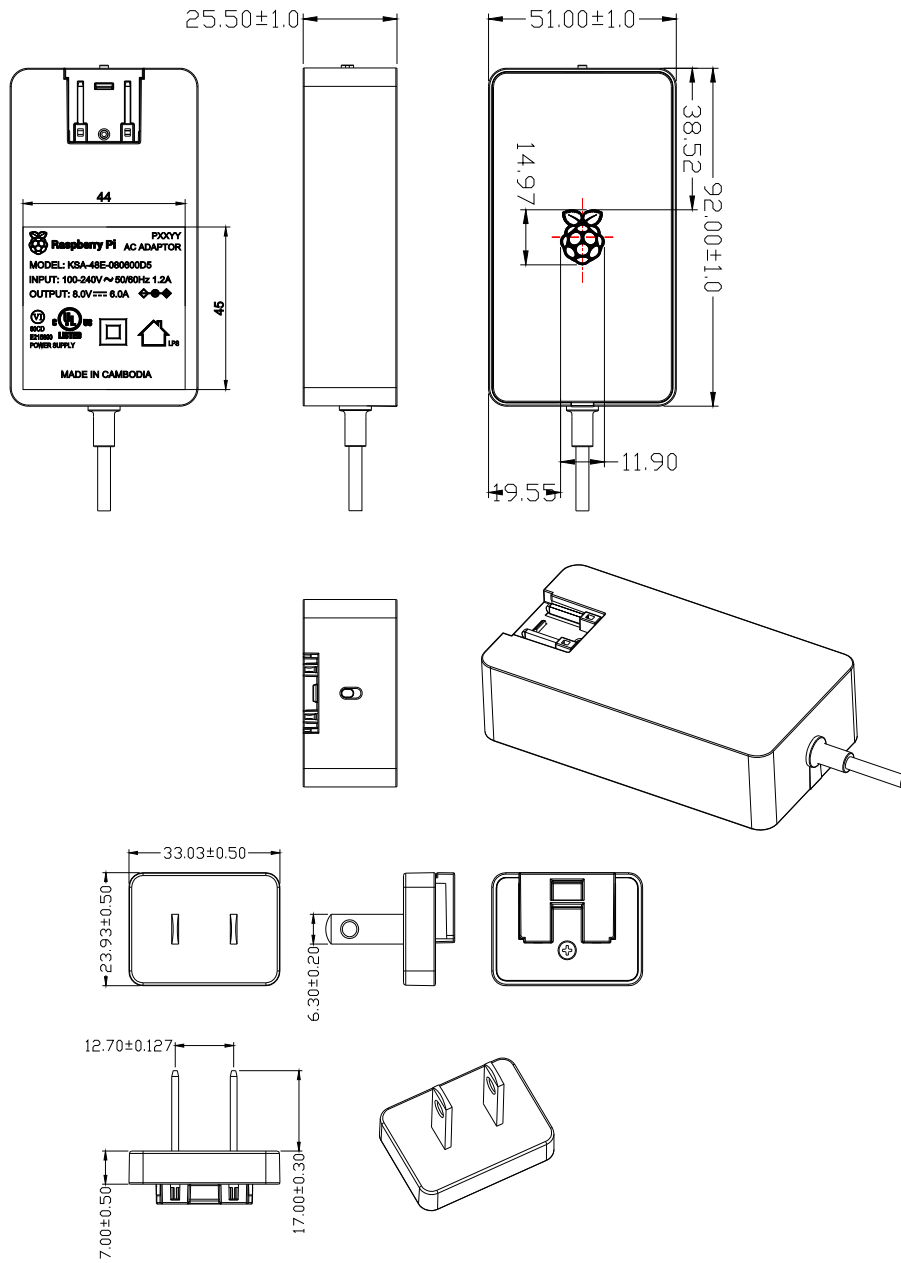
## Compliance

For a full list of local and regional product approvals, please visit

[pip.raspberrypi.com](http://pip.raspberrypi.com)

## Physical specification

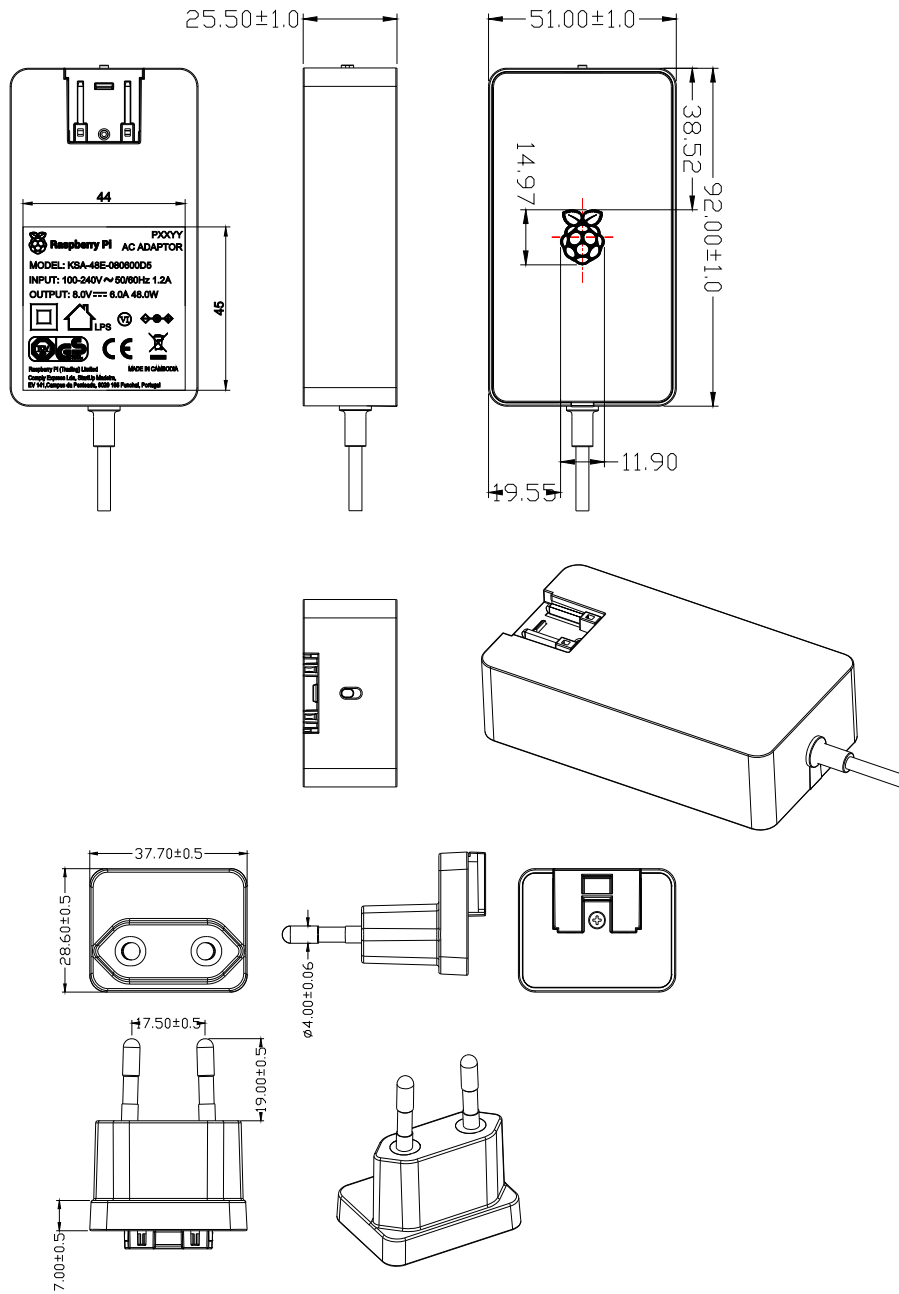
KSA-48E-080600D5 KS210573



note: all dimensions in mm

## Physical specification

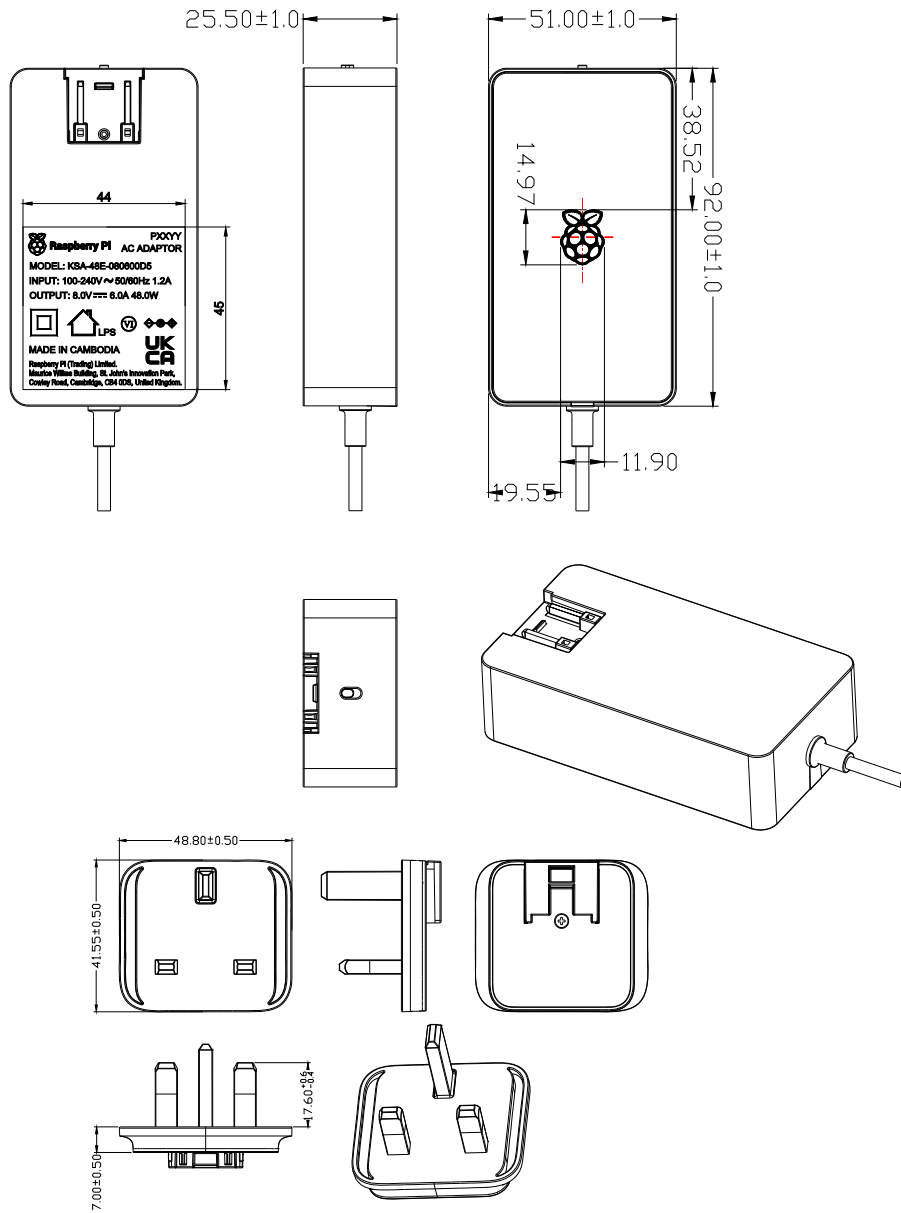
KSA-48E-080600D5 KS210574



note: all dimensions in mm

## Physical specification

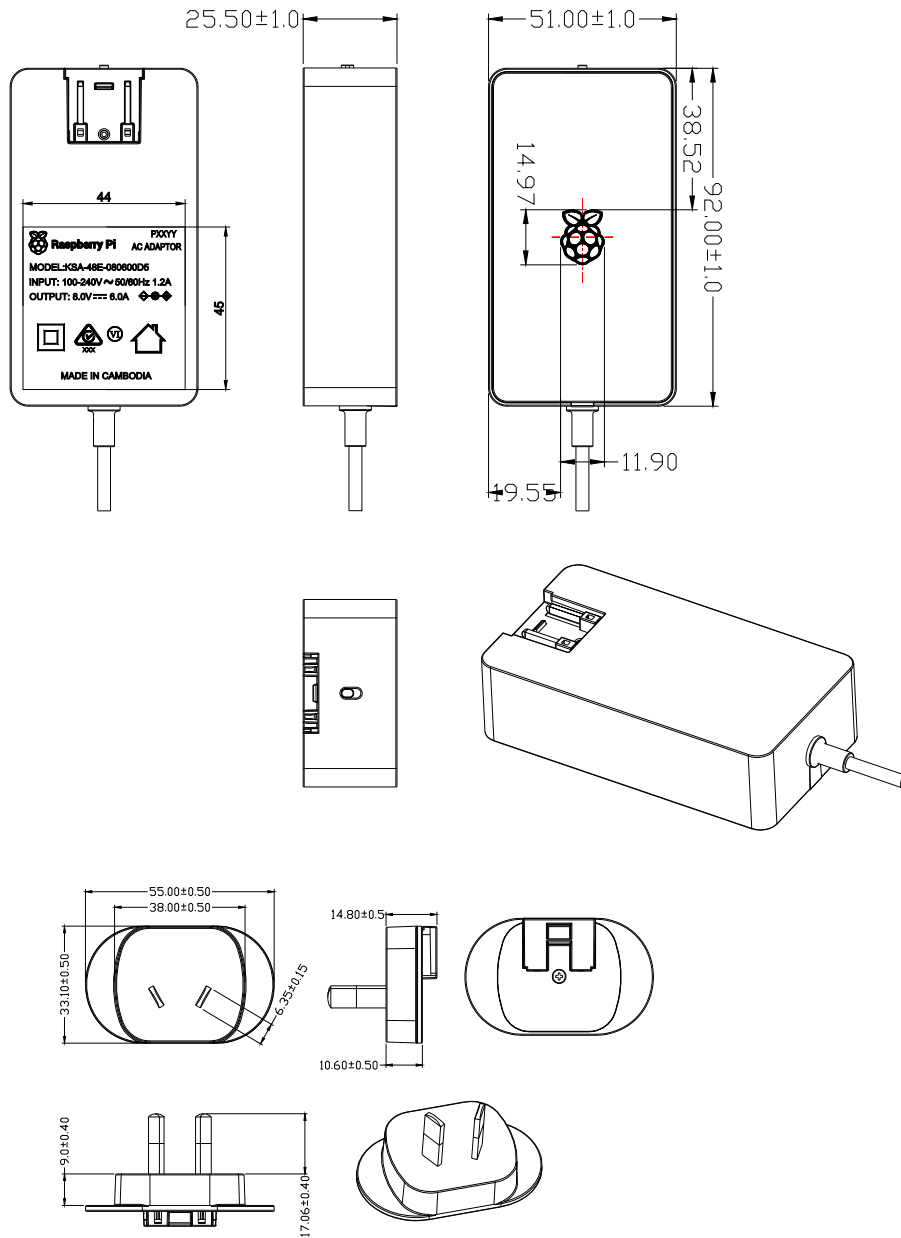
KSA-48E-080600D5 KS210575



note: all dimensions in mm

## Physical specification

KSA-48E-080600D5 KS210576



note: all dimensions in mm



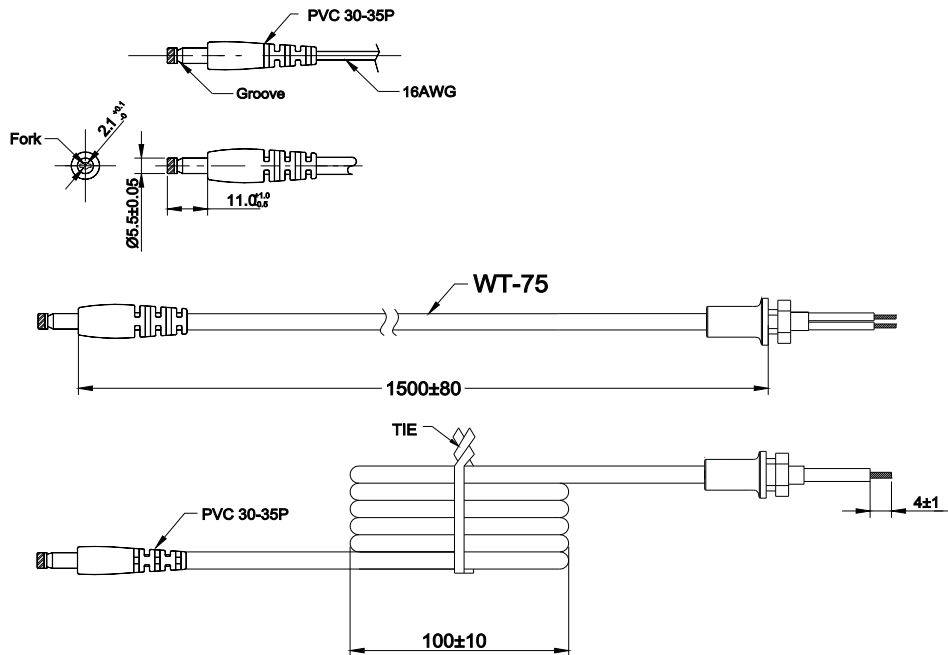
## Case material

UL94V-0

## AC pin material

Brass (NI plated)

## DC cord & output plug



## WARNINGS

- This product should be operated in a well-ventilated environment.
- The connection of incompatible devices to this power supply may affect compliance, result in damage to the unit and invalidate the warranty.

## SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product please observe the following:

- Do not expose to water or moisture, or place on a conductive surface whilst in operation.
- Do not expose to heat from any source; this is designed for reliable operation at normal ambient room temperatures.
- Do not attempt to open or remove the power supply case.



Raspberry Pi is a trademark of Raspberry Pi (Trading) Ltd

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