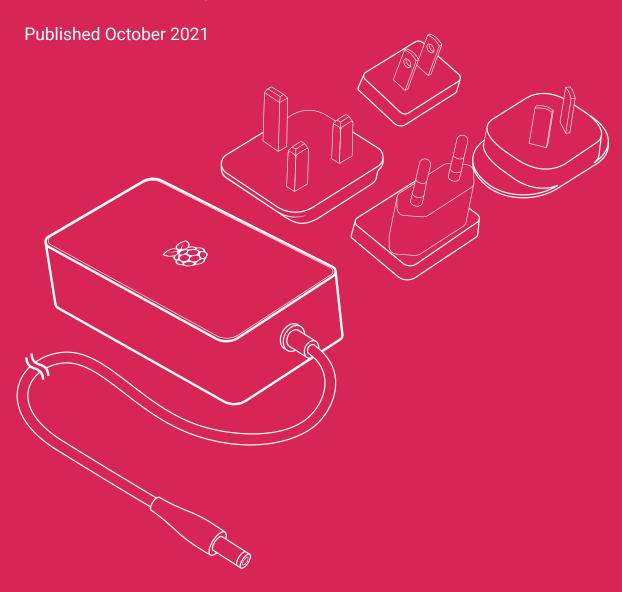
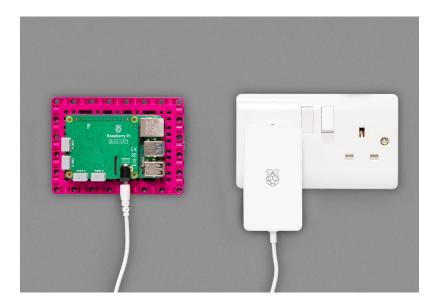


# Raspberry Pi Build HAT Power Supply



#### **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 LEGO® Education 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	Туре А
KSA-48E-080600D5	SC0748	White	Europe, India	Туре С
KSA-48E-080600D5	SC0746	White	UK	Type G
			Australia	
KSA-48E-080600D5	SC0749	White	New Zealand	Туре I
			China	

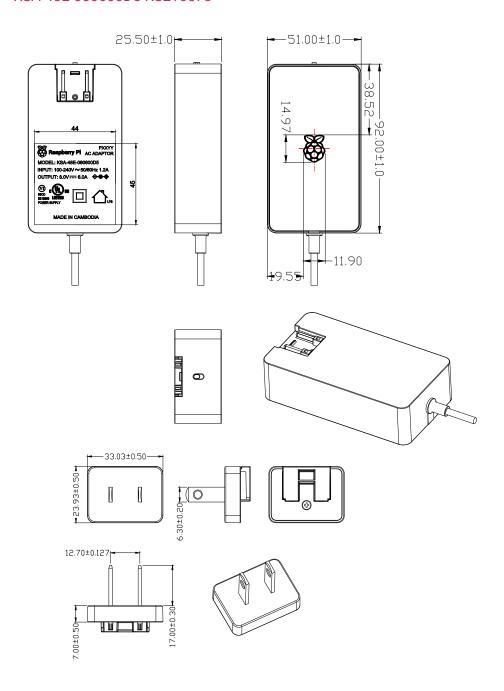
#### Environment

Operating ambient temperature 0-40°C

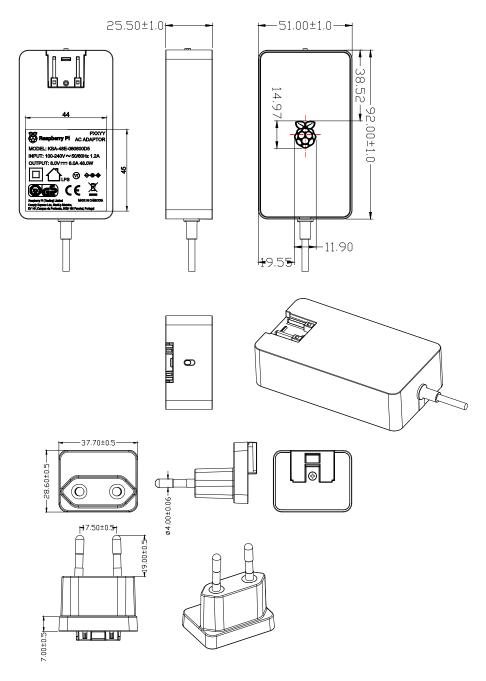
## Compliance

For a full list of local and regional product approvals, please visit <a href="mailto:pip.raspberrypi.com">pip.raspberrypi.com</a>

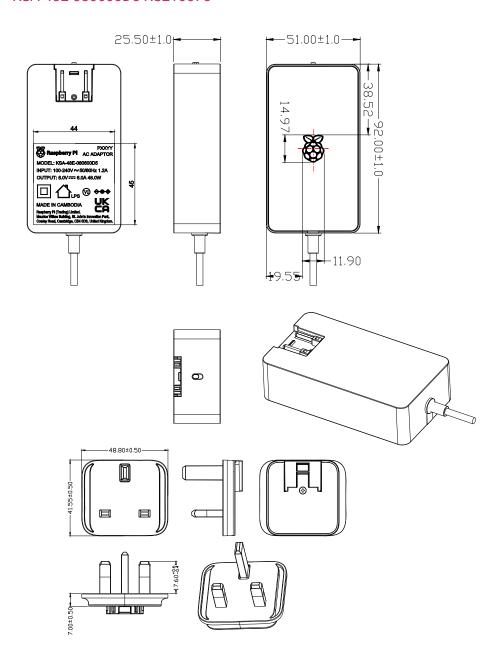
## KSA-48E-080600D5 KS210573



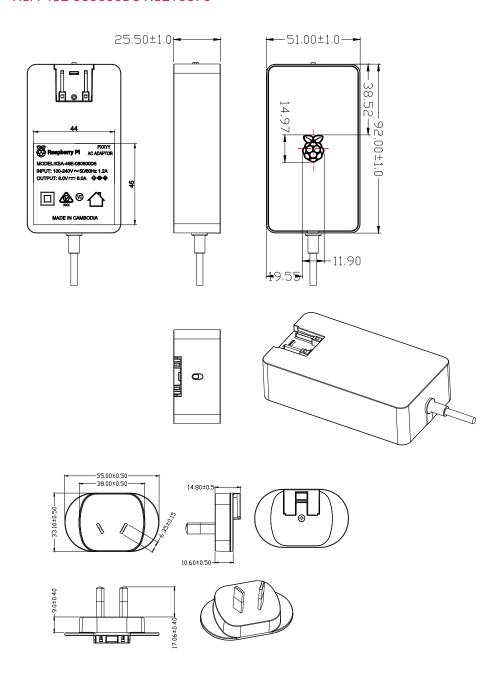
#### KSA-48E-080600D5 KS210574



#### KSA-48E-080600D5 KS210575



#### KSA-48E-080600D5 KS210576



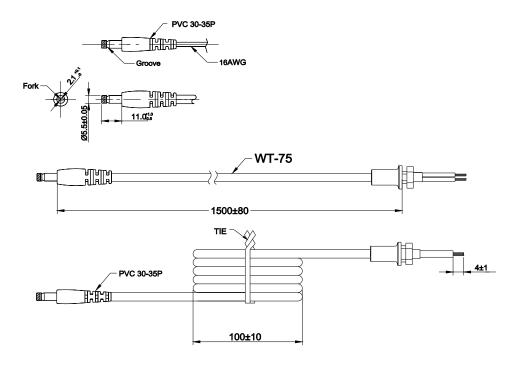
#### Case material

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:

- ${\boldsymbol{\cdot}}$   $\;$  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.



# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Raspberry Pi:

SC0749 SC0748 SC0747 SC0746