

# AI-01793 Home Assistant Sonoff POWCT Setup

👤 Owner	Ⓜ Rigel Arcayan
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Here is a YAML script for integrating your Sonoff POWCT 100A with Home Assistant, typically used with ESPHome or Tasmota firmware that publishes data via MQTT.

This script defines the necessary MQTT sensors to track power, current, voltage, and total energy consumption from your Sonoff POWCT 100A.

Sonoff POWCT 100A Home Assistant YAML Script

## How to Use This Script:

- 1. Identify Your MQTT Topic:** First, ensure your Sonoff POWCT 100A is configured to publish its data via MQTT. If you're using Tasmota, you can find the `tele/YOUR_DEVICE_NAME/SENSOR` topic in the Tasmota console or web UI. Replace `tele/sonoffpowct/SENSOR` in the script with your device's actual topic.
- 2. Add to Home Assistant:**
  - Open your Home Assistant `configuration.yaml` file.
  - Paste the entire `sensor:` block into your `configuration.yaml`.
  - Alternatively, you can create a new file (e.g., `sonoff_powct_sensors.yaml`) in your `config` directory and paste the content there. Then, in your `configuration.yaml`, add `sensor: !include sonoff_powct_sensors.yaml`.
- 3. Restart Home Assistant:** After saving the changes, restart Home Assistant for the new sensors to be detected.

4. **Energy Dashboard Integration:** Once the sensors appear, go to **Settings** → **Dashboards** → **Energy** in Home Assistant. You can then add the "Sonoff POWCT Total Energy" sensor as a grid consumption entity to track your energy usage over time.

This script provides a solid foundation for monitoring your energy consumption with the Sonoff POWCT 100A in Home Assistant.

Create a yaml script for Sonoff POWCT 100A for Home Assistant

yaml Script

```
# Home Assistant Configuration for Sonoff POWCT 100A
# This script assumes your Sonoff POWCT is flashed with Tasmota or ESPHome
# and is publishing its sensor data to an MQTT broker.

# Replace 'your_mqtt_topic' with the actual MQTT topic of your Sonoff POWCT.
# For Tasmota, this is usually 'tele/sonoffpowct/SENSOR' or similar.
# For ESPHome, it depends on your ESPHome configuration.

# Example Tasmota topic: tele/sonoff_powct_1/SENSOR

sensor:
  # Power Sensor (Watts)
  - platform: mqtt
    name: "Sonoff POWCT Power"
    state_topic: "tele/sonoffpowct/SENSOR" # Adjust this topic to match your device
    value_template: "{{ value_json.ENERGY.Power }}"
    unit_of_measurement: "W"
    device_class: "power"
    state_class: "measurement"
    icon: mdi:flash

  # Current Sensor (Amperes)
  - platform: mqtt
    name: "Sonoff POWCT Current"
```

```
state_topic: "tele/sonoffpowct/SENSOR" # Adjust this topic
value_template: "{{ value_json.ENERGY.Current }}"
unit_of_measurement: "A"
device_class: "current"
state_class: "measurement"
icon: mdi:current-ac
```

#### # Voltage Sensor (Volts)

```
- platform: mqtt
name: "Sonoff POWCT Voltage"
state_topic: "tele/sonoffpowct/SENSOR" # Adjust this topic
value_template: "{{ value_json.ENERGY.Voltage }}"
unit_of_measurement: "V"
device_class: "voltage"
state_class: "measurement"
icon: mdi:sine-wave
```

#### # Total Energy Sensor (kWh)

# This sensor accumulates total energy consumption.

```
- platform: mqtt
name: "Sonoff POWCT Total Energy"
state_topic: "tele/sonoffpowct/SENSOR" # Adjust this topic
value_template: "{{ value_json.ENERGY.Total }}"
unit_of_measurement: "kWh"
device_class: "energy"
state_class: "total_increasing" # Important for Home Assistant Energy Dashbo
icon: mdi:lightning-bolt
```

#### # Daily Energy Sensor (kWh) - Optional

# This sensor resets daily and is useful for daily consumption tracking.

```
- platform: mqtt
name: "Sonoff POWCT Daily Energy"
state_topic: "tele/sonoffpowct/SENSOR" # Adjust this topic
value_template: "{{ value_json.ENERGY.Today }}"
unit_of_measurement: "kWh"
device_class: "energy"
```

```
state_class: "total_increasing"  
icon: mdi:calendar-today
```

```
# Example of how to add this to your configuration.yaml:  
# You can either paste this directly into your configuration.yaml  
# or include it from another file like so:  
# sensor: !include sensors.yaml  
# (if you save the above content as sensors.yaml in your config folder)
```