

Storm Mode Driver

The Storm Mode Driver accompanies the EnergyFlow for Tesla driver. Together they enable Control4 to integrate with Tesla Powerwall and to toggle a storm mode state.

This driver's features should not be confused with Tesla Storm Watch feature. Tesla Storm Watch is not user-configurable in terms of which weather events it triggers on, or when the mode is activated relative to when the watch or warning is issued. This can lead to times where the battery is not taking advantage of available solar energy, or when the battery is not sufficiently charged to get through the weather event in case grid power experiences an outage.

This driver allows a customer to enable Storm Mode at will from navigators. When enabled, the driver will set the Powerwall's reserve battery level to 100%. This ensures batteries will charge from solar prior to the storm, if solar energy is available. If grid charging is available and enabled, the Powerwall will also charge from the grid.

The driver has a timer that will then return the Powerwall to the previously configured reserve battery level. The customer can also manually toggle Storm Mode off with the navigator button.

Configuration

Prerequisites

1. Configure the EnergyFlow for Tesla driver.

Initial configuration

1. Add this display driver to the project.
2. Go to **Connections** and find the EnergyFlow for Tesla driver.
3. Connect this driver to one of the `Storm Mode Out` bindings.
4. Optionally, set the `Timer Hours` value. This property sets the times that are available for the Navigator button. For example, the first value is the time that is set on first tap of the button. Each successive tap within the first 5 seconds will cycle through these values followed by 'Off' as the final value. Valid values are listed below this property.

Properties

- `Cloud Status` Indicates if the license is activated, expired, or if updates are available.
- `Automatic Updates` If 'On', automatically install updates when they become available.
- `Driver Version` Numeric version of the driver.
- `Debug Mode` When 'On', print debug messages to the 'Lua' tab, and also log to the Control4 debug log.
- `Timer Hours` The times that are available for the Navigator button. For example, the first value is the time that is set on first tap of the button. Each successive tap within the first 5 seconds will cycle through these values followed by 'Off' as the final value. Valid values are listed below this property.
- `Storm Mode Enabled` Whether the Storm Mode is currently enabled.
- `Minutes Remaining` If Storm Mode is enabled, displays the number of minutes that are remaining on the timer. After the timer expires, the Powerwall is set to the previous reserve battery level.

Programming

Events

- `Storm Mode is enabled`
- `Storm Mode is disabled`

Conditionals

Conditionals allow you to create advanced programming logic based on Storm Mode state. Available conditionals include:

- `Storm Mode is [Enabled/Disabled]` - Check whether Storm Mode is currently active

Example uses: Adjust home automation behavior during storm preparation, trigger additional backup systems when Storm Mode activates, or create notifications when Storm Mode is enabled or disabled.

Variables

- `STORM_MODE_ENABLED`
- `STORM_MODE_MINUTES_REMAINING`