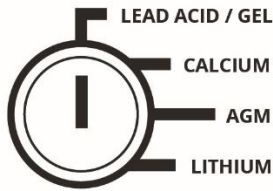


# ToughPower Quick Start Installation Instructions

Dual Battery BMS Controller Models: TPH-1000, TPV-1000

Refer to User Manual  
for full detailed  
instructions

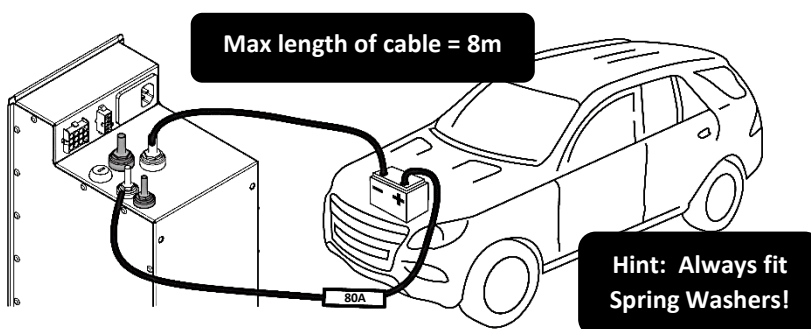
## Selecting Battery Type



Using the Key inserted in the Key-Switch, select the 12V Dual (Auxiliary) Battery Type. After selection, remove the Key and store in a secure location.

Warning – For 2 or more Dual (Auxiliary) Batteries set up as a “Battery Bank” installation, they MUST be the same chemical type and age.

## Connecting to Vehicle Battery

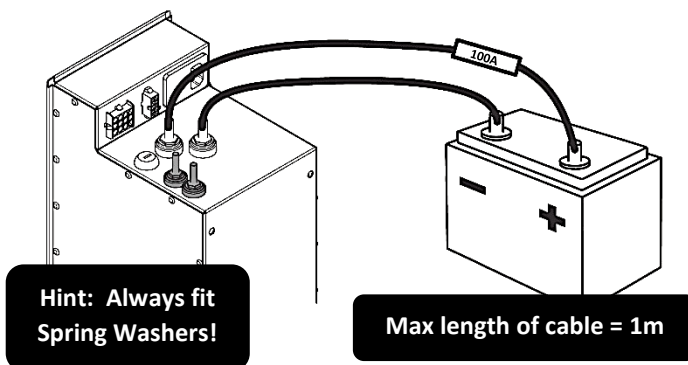


**B&S 4** Cable is recommended to connect the Vehicle Battery to the ToughPower.

Fit M6 & M8 Ring Terminal Connectors to attach to the ToughPower Terminal Posts.

Fit an 80A Midi fuse close to the Vehicle Battery.

## Connecting to Dual (Auxiliary) Battery



**B&S 2** Cable, at no greater length than **1m**, MUST be used to connect the Dual (Auxiliary) Battery to the ToughPower. Performance at High Current outputs will be compromised if these cables are longer or are a thinner gauge.

Fit M8 Ring Terminal Connectors to attach to the ToughPower Terminal Posts.

Fit a 100A Midi fuse close to the Dual (Auxiliary) Battery.

## Connecting To 12V (Nominal) Solar Panel

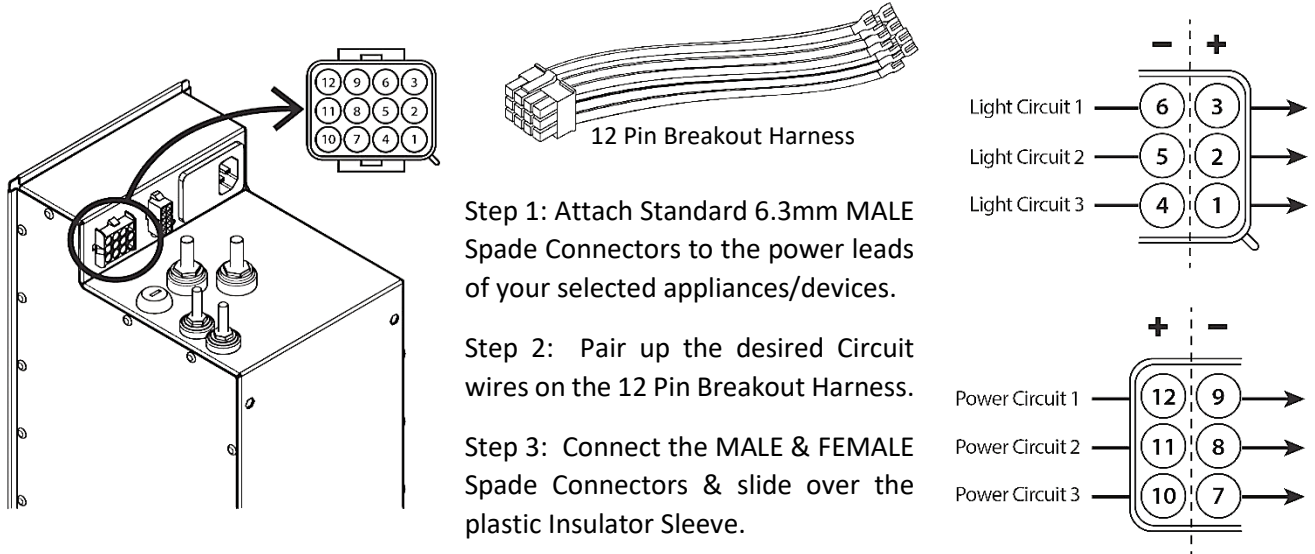


Fit M6 & M8 Ring Terminal Connectors to your Solar Panel cables to attach to the ToughPower Terminal Posts.

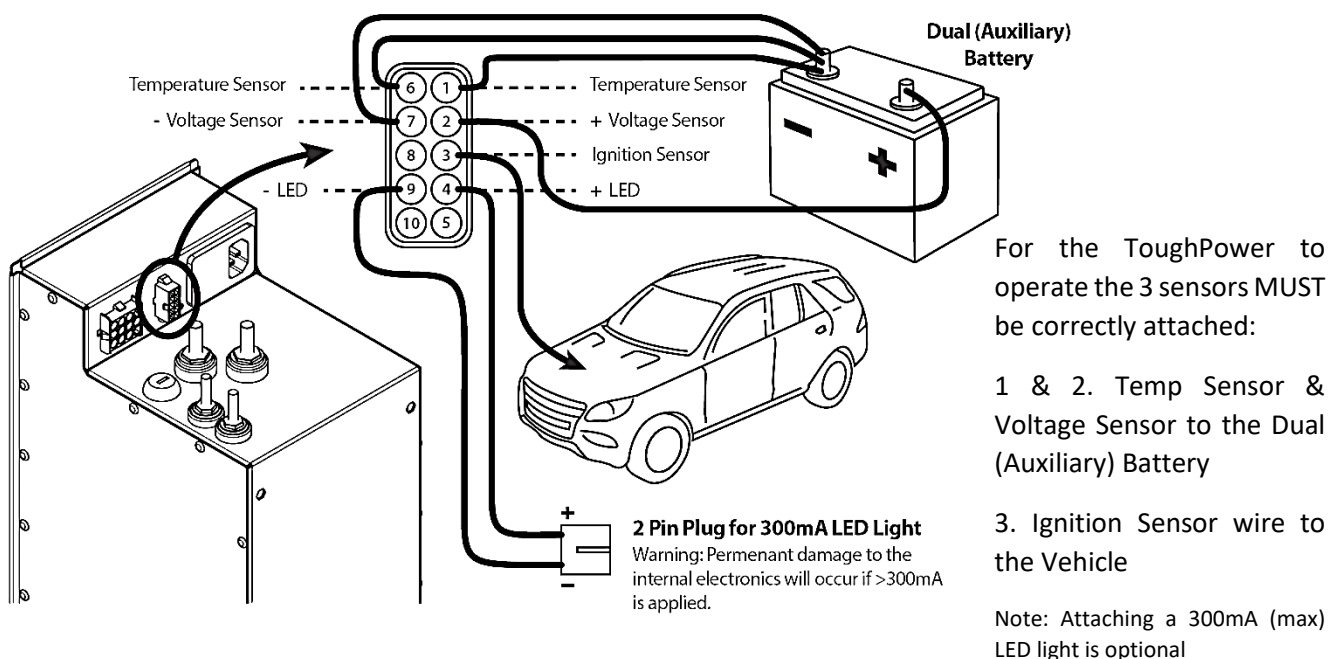
Only 12V Nominal Solar Panels can be fitted. Max Voc = 25V.

**Warning:** Permanent damage to the internal electronics will occur if 24V or 36 V (House) Solar Panels are connected.

## Wiring The 12 Pin Plug



## Wiring The 10 Pin Plug



## Important Information

1. Make sure the ToughPower has been *securely fixed* to the vehicle. M4 Nutserts are located on all faces of the ToughPower unit providing mounting points. intelliQuip recommend using a minimum of *4 Nutsert fixing points*.
2. Before turning the ToughPower ON, check the *polarity* of all the connections.
3. Now turn the ToughPower Master Switch to the ON position.
  1. Check that the Battery Chemistry type is correct
  2. Enter the correct Capacity of the Dual (Auxiliary) Battery in Ahr