

Product datasheet

Model	PDU and Harness kit with water sensor
Description	Power device unit and Harness kit with water sensor
Item number	4606105



Product datasheet

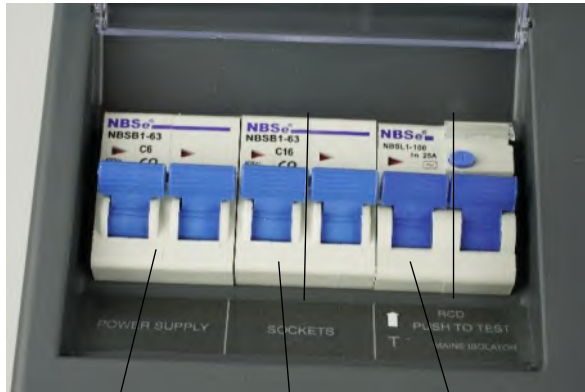


Technical specifications

Dimensions (LxWxH)	307x262x93	mm
Dimensions package (LxWxH)	310x270x210	mm
Net weight	6100	g
Gross weight	6500	g
Material	Plastic	
Colour	Grey	
Input	230	V AC
Output (white connectors)	13.8	V DC
Output (red connectors)	230	V AC
Maximum output power	150	W

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Details



MCB C6
to
protect
internal
power

MCB
C16 to
protect
the
230AC
output

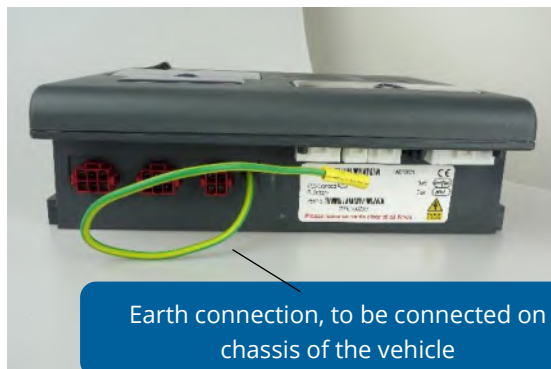
RCD 30mA to protect the 230V AC input and output.



12V output fuses



Blade Fuse
(ATO)
14x19x5mm



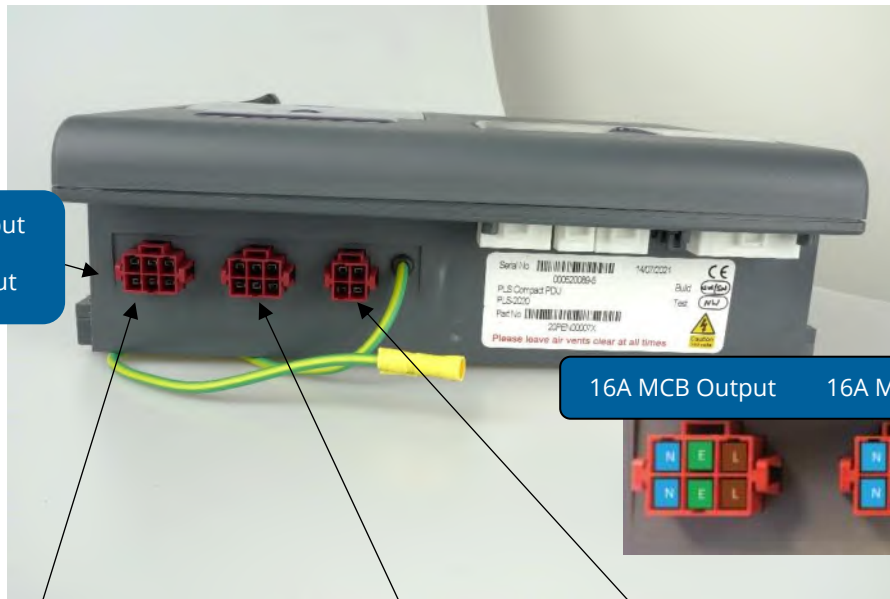
Earth connection, to be connected on chassis of the vehicle



Ventilation holes

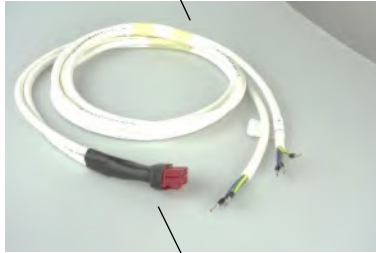
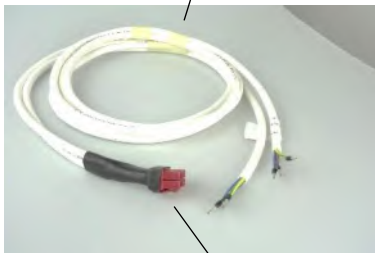


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2x 230V AC output
1x 230V AC input

16A MCB Output 16A MCB Output Mains Input



2x 230V AC output for sockets
protected by MCB C16, 2m
each

Mains input, 3m



Control panel



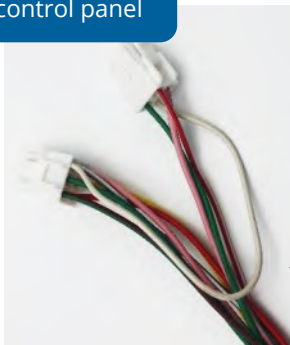
Watersensor

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12V wire Harness



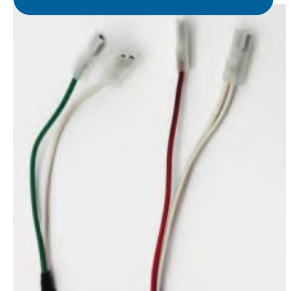
To connect on control panel



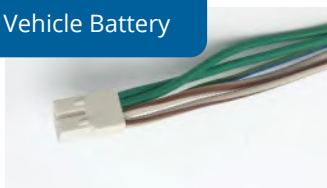
To connect on water probe (if applicable)



To connect on Ign./spare Perm.



To connect on Vehicle Battery

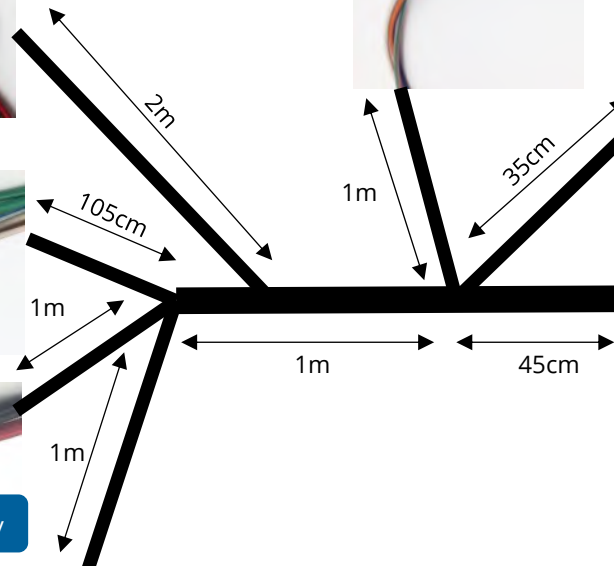


To connect on Leisure Battery



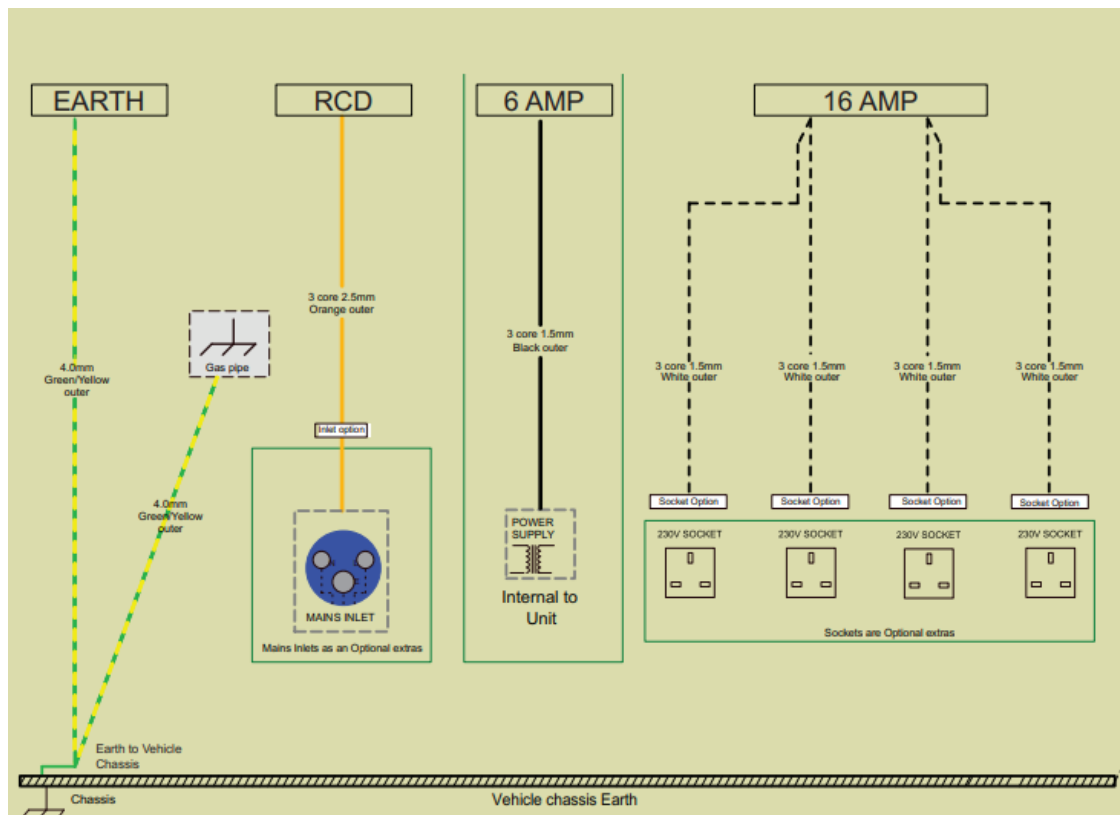
To connect on Fridge/Heater/Hob/Oven/Aux /lights/Perm/Toilet/Pump

To connect on PDU

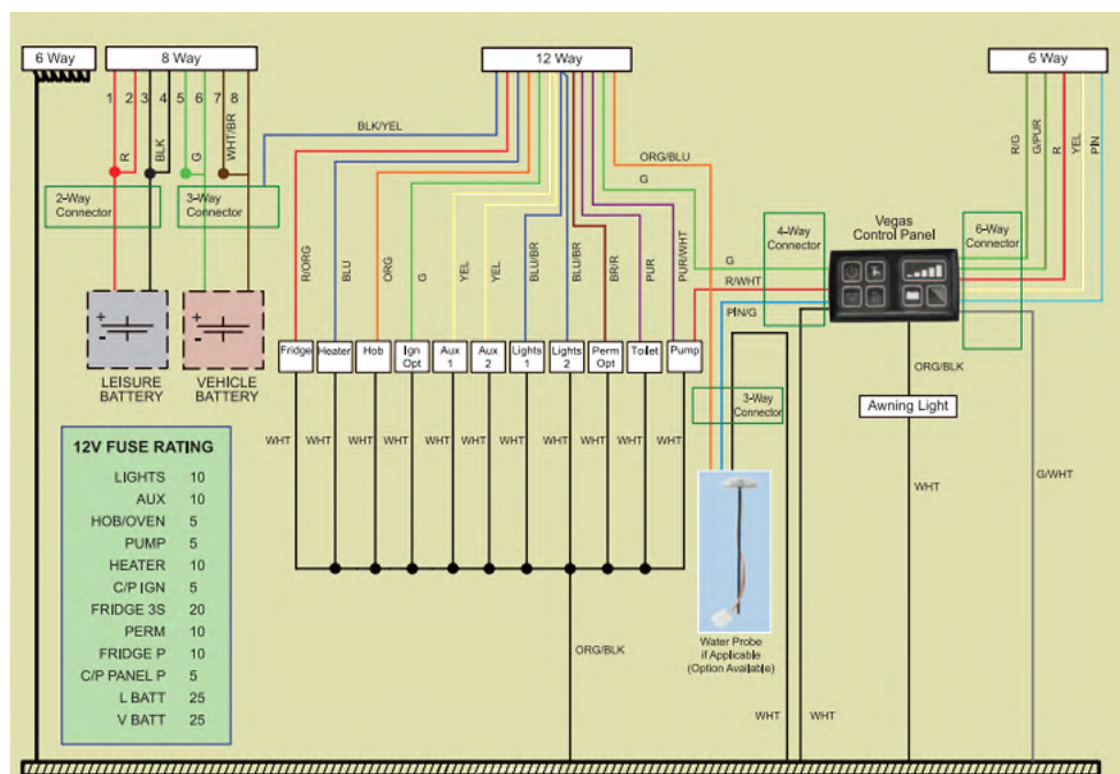


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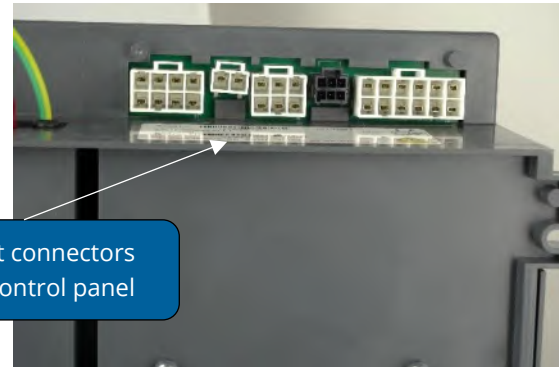
230V AC system drawing:



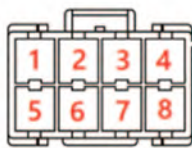
PDU Internal connections:



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Input connectors for Control panel



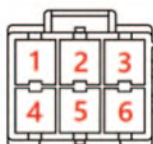
White coloured connector

Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	F1	25A	Vehicle Battery	Feed from the Vehicle battery, linked with Pin 5
2	N/A	N/A	Ground	To be used as the return for the Vehicle battery
3	F2	25A	Leisure Battery	Feed from the leisure battery, linked with pin 7p
4	N/A	N/A	Ground	To be used as the return for the Leisure battery
5	F1	25A	Vehicle Battery	Feed from the Vehicle battery, linked with pin 1
6	N/A	N/A	Ground	To be used as the return for the Vehicle battery
7	F2	25A	Leisure Battery	Feed from the leisure battery, linked with pin 3
8	N/A	N/A	Ground	To be used as the return for the Leisure battery



White coloured connector

Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	N/A	N/A	Ground	Return to 3 stage fridge
2	F6	25A	Fridge	Feed for 3 stage fridge, ignition controlled



White coloured connector

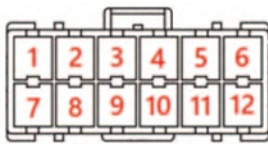
Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	N/A	N/A	Ground	Return paths for circuits
2	N/A	N/A	Ground	Return paths for circuits
3	N/A	N/A	Ground	Return paths for circuits
4	N/A	N/A	Ground	Return paths for circuits
5	N/A	N/A	Ground	Return paths for circuits
6	N/A	N/A	Ground	Return paths for circuits

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Black coloured connector

Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	F3	5A	Control Panel	This is a permanent circuit.
2	F7	5A	Control Panel	This circuit is control by the ignition and has no power when the engine is running
3	N/A	N/A	Ground	To be used as the return for the control panel
4	N/A	N/A	Master Switch Return	Master Switch return from the control panel
5	N/A	N/A	Lights Return	Master lights switch return from the control panel
6	N/A	N/A	Pump Return	Master pump switch return from the control panel



White coloured connector

Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	F1	15A	Fridge	This is a permanent circuit for a compression fridge
2	F8	10A	Heater	This is a master switch-controlled circuit
3	F10	5A	Hob	This is a master switch-controlled circuit
4	F13*	5A	12v Ignition out	Live when the engine is running**
5	F11	15A	Auxillary	This is a master switched-controlled circuit, linked with pin 11
6	F12	15A	Lights	This is a master switched and lights switched controlled circuit fed off a normally closed relay, linked with Pin 12
7	F5	5A	Permanent	This is a permanent circuit
8	F9	10A	Toilet	This is a master switched circuit
9	F9	10A	Pump	This is a master switched and Pump switched controlled circuit fed off a normally open relay
10	N/A	N/A	12v Ignition in	This is an input pin for the ignition signal
11	F11	15A	Auxillary	This is a master switched-controlled circuit, linked with pin 5
12	F12	15A	Lights	This is a master switched and lights switched controlled circuit fed off normally closed relay, linked with Pin 12

* F13 is a resettable fuse mounted internally on the PCB ** there must be a suitable input on pin 10

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Colour coding 12V harness wires:

COLOUR	CODE	COLOUR	CODE
RED	R	ORANGE/BLACK	ORG/BLK
BLUE	BLU	RED/GREEN	R/G
GREEN	G	GREEN/BROWN	G/BRN
ORANGE	ORG	PURPLE	PUR
YELLOW	YEL	RED/BROWN	YEL
GREEN/BLACK	G/BLK	GREEN/BLUE	G/BLU
BLUE/BROWN	BLU/BRN	GREEN/PURPLE	G/PUR
GREEN/PURPLE	G/PUR	BLUE/WHITE	BLU/WHT
GREEN/WHITE	G/WHT	ORANGE/GREEN	ORG/G
PINK	PIN	GREEN/WHITE	G/WHT
PINK/BLUE	PIN/BLU	RED/ORANGE	R/ORG
ORANGE/WHITE	ORG/WHT	BLUE/BLACK	BLU/BLK
RED/WHITE	R/WHT	BLUE/RED	BLUE/RED
GREY/BLACK	GR/BLK	GREEN/YELLOW	G/YEL
BLACK/WHITE	BLK/WHT	BLACK	BLK
YELLOW/BLACK	YEL/BLK	WHITE	WHT
PINK/YELLOW	PIN/YEL	BROWN	BRN
PINK/GREEN	PIN/G	GREY	GR
PINK/WHITE	PIN/WHT	WHITE/BROWN	WHT/BRN
YELLOW/WHITE	YEL/WHT	GREY/WHITE	GR/WHT
BLUE/YELLOW	BLU/YEL	GREY/PINK	GR/PIN

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Installation and dimensions in mm (± 1 mm)

Ventilation:

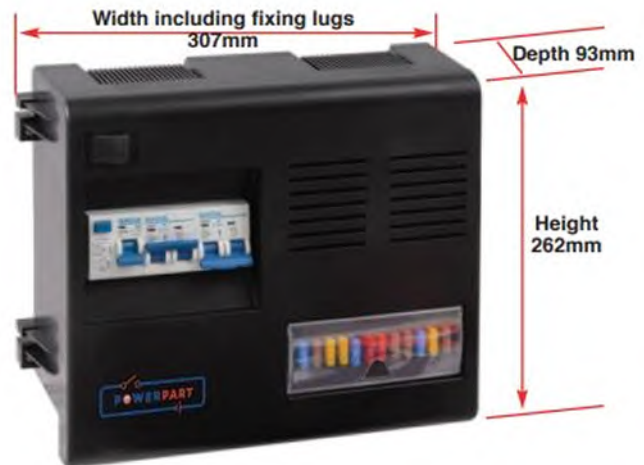
The PDU requires a minimum surrounding clearance of 75mm around the ventilation slots. Do not cover the ventilation holes. The PDU must be installed as such that external heat sources will not have a detrimental effect on the normal operation of the unit.

Fixing of the PDU

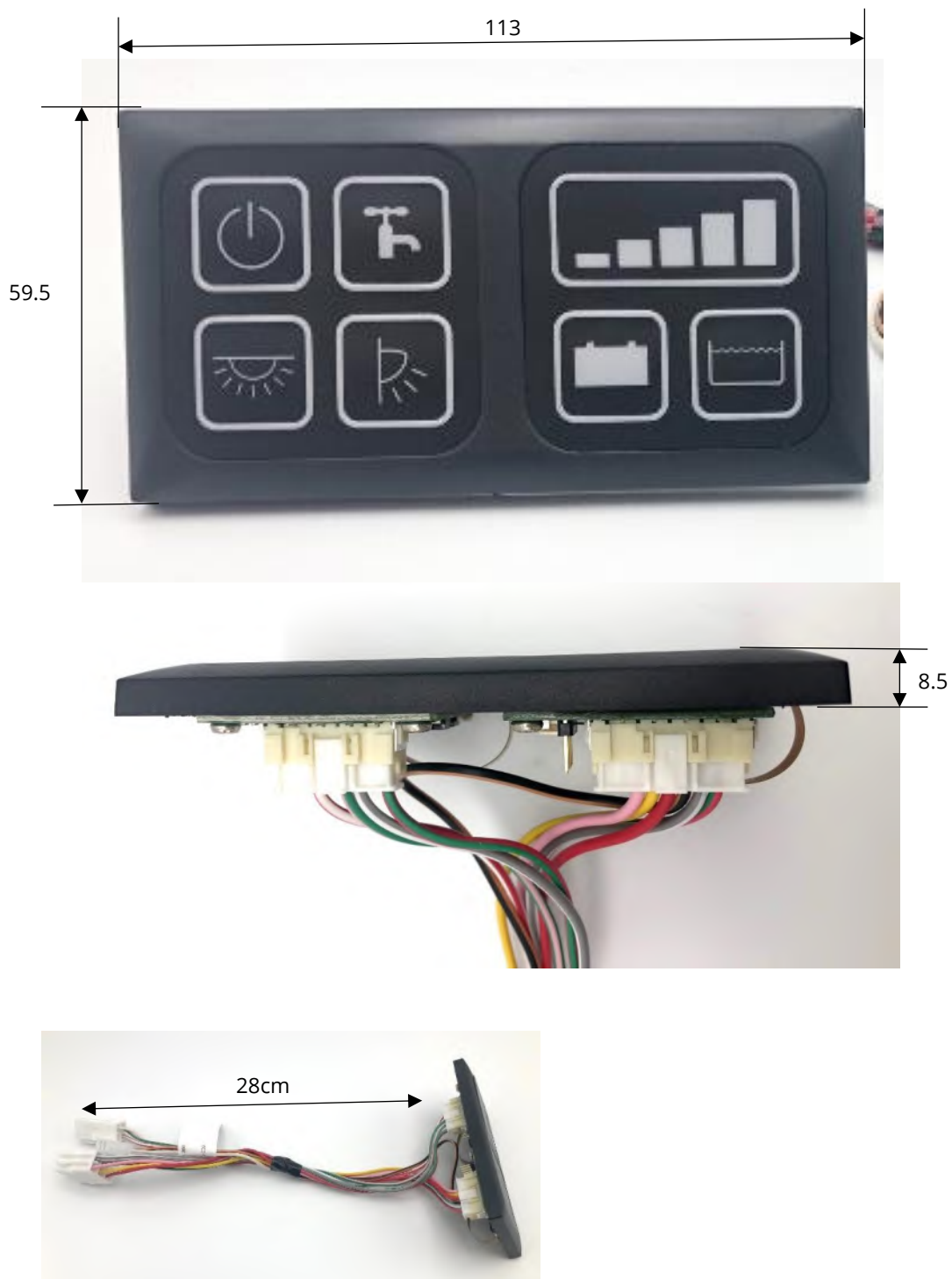
All four fixing points must be used to secure the PDU to prevent damage to the unit from vibration. The fixing lugs are mirrored on the opposite side of the PDU. Care must be taken to give adequate space for the bend radius of the cable that is being installed.

Access to connectors

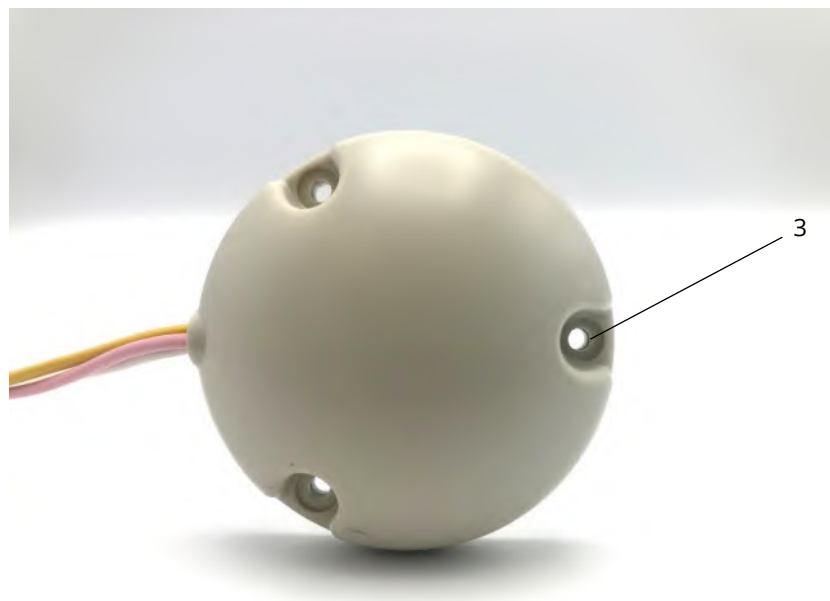
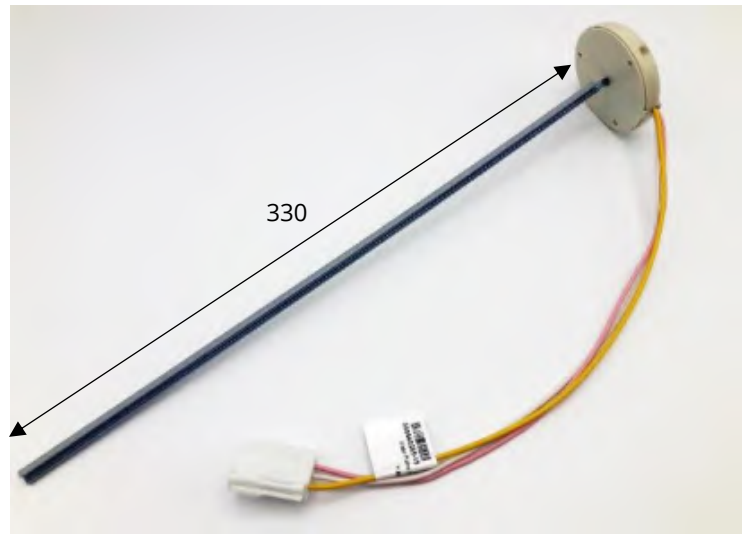
The PDU should be installed in such a way that access to the connectors are only accessible by the use of a tool either by location or an enclosure securely fastened. Connection to the mains supply
Connection of the PDU to the mains supply should be made with the supplied cable connected to an inlet enclosed in a suitable enclosure.



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Storage of the PDU

The PDU MUST be stored in a dry storage area suitable for storing electrical and electronic equipment.

Servicing of the PDU

The RCD and MCB's should be checked at the annual service for loose connections on the conductors and busbars.

All electrical work must be carried out by a competent person

The earth terminal should be checked at the annual service for loose connections.

The fixing lugs on the casing should be checked for loose fixings and damage at the annual service.

The 12V fuses should be checked for correct installation at the annual service.

Button Panels

Vegas Button Panel



Vegas Battery and Water Level Panel



Vegas Battery and Gas Level Panel



Vegas Battery Level Panel
(without water or Gas Indicator)



Vegas Control Panel Range User Manual

This description is for all the different types of control panels.

Select the desired panel for the complete description.

Overview

The Vegas Control Panel range allows the user a central or distributed point to check:

- Leisure vehicle battery voltage
- Waste tank full status
- Water tank level measurement
- LPG tank volume measurement

The Vegas Control Panel range allows the user to:

- Switch on/off all non-essential electrical appliances & accessories
- Force the pump to run (for purging the pipes)
- Switch on/off the light circuits
- Switch on/off the awning light
- Switch on/off the pump system

The Vegas Control Panel range has visual alerts for:

- Waste tank full indication
- Pump running indication

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Vegas Button Control Panel

Vegas Voltmeter Control Panel



Master Button

When the Master Button is pressed, the control panel will switch power to all non-essential accessories.

- Some features, such as lights, will need the Master Button to be switched on to work.

Lights Button

When the Lights Button is pressed, the control panel will switch power to all the interior lights.

- The Master Button must be switched on for this button to affect the lights.

Pump Button

When the Pump Button is pressed, the control panel will switch power to the water pumps.

- Holding down the Pump Button forces the internal pump to run regardless of tank level. This is to purge the water system.

Awning Button

When the Awning Button is pressed the control panel will switch power to the exterior awning light.

- The Master Button must be enabled to control the awning light.

Vegas Voltmeter with Water Level Panel

Vegas Voltmeter Control Panel



Display Indicator

The Display indicator on the Vegas Voltmeter Panel is used to display the Leisure Battery voltage and the Water level, depending on which button is pressed, also depending on the model it will display sensor alerts.

- If a waste tank is fitted, the lowest indicator (**Red**) will illuminate when the waste tank is full.
- When the pump is running the 5th indicator (**Green**) will illuminate to indicate that the pump is currently running.

Leisure Battery Voltage Button

When the Leisure Battery Voltage Button is pressed, the Display Indicator will illuminate and display the voltage level of the Leisure Battery.

Note: This will override indicator alerts.

Water Level Button

When the Water Level Button is pressed, the Display Indicator will illuminate and display the water level reading inside the water tank. The Vegas Voltmeter panel takes a measurement every 8 seconds that the button is held down with the first measurement done as soon as the button is pressed.

If the Water Level Button is released and pressed again within

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8 seconds of the last measurement then there will be a delay until a new measurement can be taken. This delay is equal to the time left from the previous measurement and is a maximum of 8 seconds. If more than 8 seconds has passed since the last measurement then it will read and display immediately.

Note: Holding the Water Level Button overrides indicator alerts.

Waiting for 8 second timer to clear



Water Level Calibration

When the water level system is used for the first time it is recommended that the user calibrates the water level system, to calibrate the water level system please follow the points highlighted below:

- Make sure that the water tank has been filled to the desired maximum water level before starting the calibration process.

Use the following steps to calibrate your Control Panel.

- Hold down both the Voltage Button and Water Level Button for 6 to 8 seconds to enter calibration mode.
- When you are in calibration mode, the Display Indicator will light up depending on which water probe you have installed.
- When the panel has entered calibration mode (One of the 3 options show opposite is being displayed) please release the Voltage Button and Water Level Button.

Calibration Modes - One of Three Options

Option - Pressure Probe



Option - 5 Prong Probe



Option - Resistive Probe



- If you wish to cancel the calibration process, press and hold Leisure Battery Voltage Button for one second.
- When the calibration process is cancelled the display will flash two times.
- To start the calibration process, press and hold the Water Level Button for half a second and then release the button.
- If the calibration process was successful, the display will flash three times.
- If the calibration process is successful, the Control Panel will restart and be ready to use.
- If the calibration process was unsuccessful, the display will flash two times.
- If the calibration process fails, restart the calibration process again ensuring that the water tank is full.

Note: If the calibration process fails and the display flashes 2 times the value is still saved as its calibration value.

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Vegas Voltmeter Battery Management Only Panel

Vegas Voltmeter Battery Measurement only Panel



Display Indicator

The Display indicator on the Vegas Voltmeter Panel is used to display the Leisure Battery voltage.

Display Alerts

- If a waste tank is fitted, the lowest indicator **(Red)** will illuminate when the waste tank is full.
- When the pump is running the 5th indicator **(Green)** will illuminate to indicate that the pump is currently running.

Leisure Battery Voltage Button

When the Leisure Battery Voltage Button is pressed, the Display Indicator will light up and display the voltage level of the Leisure Battery. The button on the right of the panel is not used on this panel.

Note: This will override indicator alerts.

Unused Button

The right-hand button on this panel is unused, pressing this button will not cause anything to happen.