

#### **DATASHEET**

# W-CAT-EVBT-006 35mm<sup>2</sup> BATTERY TEST BOX

A specially designed test box to enable remote electrical safety testing of a 600 VDC electric vehicle DC battery pack.

## **Special Features**

- Specific Test Points for:
  - o Voltage test
  - Insulation Test
  - HiPot Test
- Custom HiPot test lead to interface with Seaward HAL103



#### Functions and benefits

The W-CAT-EVBT-006 is specifically designed to be connected to the mating connectors installed on a 600 VDC battery pack:

- +Ve PL18X-201-35
- -Ve PL18W-201-35

The cable length of 1m from the connectors to the test box allow the tests to be carried out by the user in a safe and comfortable location away from the battery pack.

The test box has the following test points incorporated:

- 1000V CAT III test points for a Voltage check using RS PRO RS-9331 1000V Voltage Tester
- 1000V CAT III 4mm banana socket test points for an Insulation Test using a Fluke 1587 Insulation Multimeter.

## Specifications

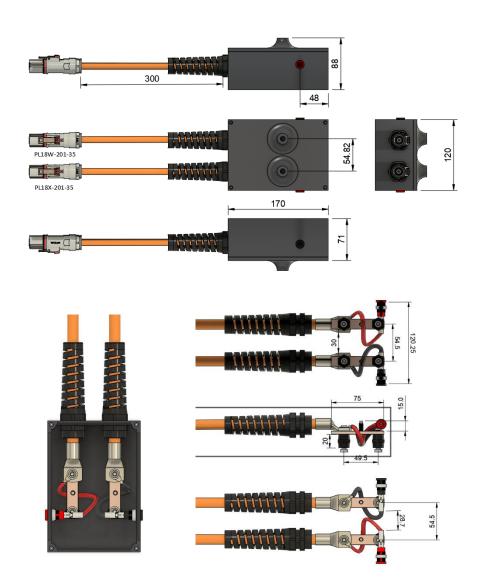
W-CAT-EVBT-001 95mm <sup>2</sup> Battery Test Box	
WGAT-APWAT-0-06 WGAT-APWAT-0-06 Violage Tret Palent	
Cables	
35mm² Cable	
Туре	COROFLEX 180HV SSC - FHLR2GCB2G
Dimensions	Stranded bare copper 1070 (+/- 5%) 0.21 mm Conductor core 8.5mm, Outer sheath 10.5mm Length 1m
Insulation/ cable jacket	Silicone rubber (RAL 2003) min 0.64mm
Shielding	Tinned copper max. 0.21 mm Optical covering min. 85 %



Max wire resistance	0.527 mΩ/m
Voltage	Max 1000 VDC. Test voltage 5.0kV @ 5 mins
Temperature	-40 °C to +180 °C
Internal Connections	
Туре	Electro-PJP 9017
Dimensions	Stranded bare copper 644 x Ø0,07 mm
	Outer diameter 3.7mm
Insulation/ cable jacket	Two pvc jackets. Wire wear indicator
Shielding	None
Max wire resistance	0.798 mΩ/m
Voltage	Insulation resistance greater than 2.2 G $\Omega$ @ 1000 VDC CAT IV
Temperature	-60 °C to +180 °C
Test Sockets	
Voltage Test Sockets	
Туре	In-built to enclosure lid
Socket dimensions	Socket designed to accept the angles and length of the
	RS Pro RS-3991 tester probes
Electrical protection	1000V CAT III
Current	36A
Temperature	-20 °C to +80 °C, Pollution degree 2
Materials	Conductors – Stainless steel and copper bar
	Insulator – Acrylonitrile Butadiene Styrene (ABS)
Insulation Test Sockets	
Туре	Electro-PJP 3274-I
Socket dimensions	Socket accepts shrouded (safety) 4mm banana plugs in
	accordance with IEC 61010-031
Electrical protection	1000V CAT III
Current	36A
Temperature	-20 °C to +80 °C, Pollution degree 2
Materials	Conductors – Nickel coated brass
	Insulator – Polypropylene
Enclosure	
Materials	3d Printed Acrylonitrile Butadiene Styrene (ABS)
Impact strength	Charpy Notch, ISO 179 39.3 ± 3.6 kJ/m <sup>2</sup>
Dimensions	L200xW97xD71mm



### **Dimensions**



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