Enabling Works: **Solo 7kW Freestanding Load Management (External)**

Pod Point To Install Board (Only)

PP-D-COM-FC-005

Project Name	Enabling Works: Solo 7kW Freestanding Load Management (External)
Project ID	Fix and Commission Client Requirements
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Revision History

VERSION	EDITOR	REVISION DATE	CHANGES
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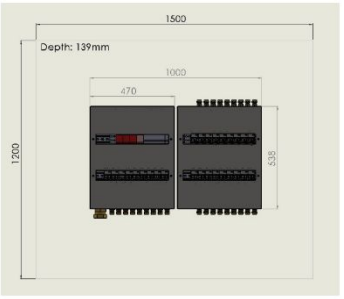
ELECTRICAL WORKS

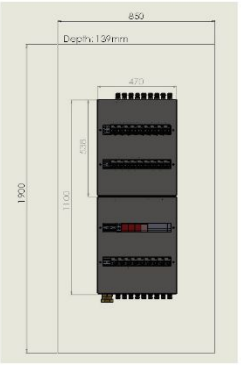
Submain (for the supply of the EV load management board)

- Has been run into position
- Has been installed to current wiring regulations and is adequately rated for the intended load
- Is connected to an adequately rated and locked-off or isolated upstream protective device (Typically 100A TP or SP depending on type of load management system)

Space Requirements

- Adequate space is available for the array board at the location proposed for its installation (typically 1m2 of wall space total)
- The load management boards can be fitted either horizontal or vertical





Trunking

- 100mm2 (min.) metal trunking should be provided for glanding of EVCP circuits.
- This should be fixed horizontally at either the top or bottom of the position intended for the load management board(s) at 900mm in length (min.)





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Cable



- Power cable between load management board and EVCP (L+N+E) 3 core (6mm2 min. Subject to volt drop calculation)
- Signal cable between Array board and EVCP - 7-2-2C LSZH or similar (2 core screened 400VAC)

  Note: *Signal cables can be daisy-chained between up to 9no EVCP provided they're fed from the same Array board (as per Array Install Guide attached)*

- All cables must be clearly labelled on either end.
- Each EVCP circuit must be a dedicated radial from load management board to the proposed unit position.
- All cables must be installed to the current wiring regulations and adequately rated for the intended load.
- All power cables must include a CPC
- The maximum cable size that can be terminated into the unit is 25mm
- 16mm2 sheathed green/yellow or 2.5mm2 earthing cable (when protected against mechanical damage and corrosion) should be provided between the earth rod and EVCP

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CIVIL WORKS

Concrete Foundation



- 600mm x 600mm x 400mm (WxLxD) non-reinforced concrete
- Ducting must be run directly into the centre of the foundation
- The foundation must have a flush and level surface finish
- The back of the foundation must be at least 200mm away from any wall/obstacle

Earthing



- Earth pit must be installed next to the unit foundation (within 5m)
- Sink earth rod (ensure this is clear of any underlying services)
- Earth reading must be under 100 ohms

Ducting

Supply Cable Duct:

- Continuous twin wall duct for the entirety of the run into the centre of the EVCP concrete foundation
- Minimum depth of 450mm except roadways where depth should be 600mm
- Minimum size of 63mm (should be adequate for the cable size running through)

Earth Cable Duct:

- Continuous twin wall duct for the entirety of the run, from the centre of the EVCP concrete foundation (next to the supply duct), to the earth pit
- Minimum size of 50mm

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EVCP



- Bolt down the freestanding mounts (in line with the centre of the parking bay)
- Fix the charge point to the freestanding mount and terminate the cable
- All charge points should be installed to avoid obstruction of escape roots or foot traffic caused by the charging cable.

POD POINT (Fix & Commission Works)

- Install the load management board
- Connect load management board to supply cable
- Connect the charger circuits and associated signal cables to the load management board only
- Test and commission the EVCP system
- Functional testing and commissioning of EVCP
- Conduct site handover

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