

# SPECIFICATION FOR THE INSPECTION AND TESTING OF AN ELECTRICAL INSTALLATION PRIOR TO THE CONECTION OF PLUG IN SOLAR EQUIPMENT

| Purpose of the inspection and test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                             |           |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------|---------|
| To determine, so far as reasonably practicable that 13A socket conforming to BS 1363, supplied by an electrical installation, is satisfactory condition for the connection of a plug-in solar device that has an inverter output not exceeding 800W.                                                                                                                                                                                                                                                                                                                                                                         |                                                             |           |         |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                             |           |         |
| The intention is for the existing installation to be inspected and tested by a person holding Level 3 qualifications in the knowledge of the IET Wiring Regulations and Inspection and Testing of low voltage electrical installations. The installation shall be inspected and tested for conformity with BS7671:2018 +Amendment 4 :2026, regardless of the original date of the installation. The inspector should determine if the installation is in satisfactory condition for the connection of a plug-in solar device, and if not, to recommend what remedial works are required to achieve a satisfactory condition. |                                                             |           |         |
| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BS 7671 Regulation                                          | Compliant | Comment |
| External condition of DNO supply equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | N/A                                                         |           |         |
| Presence and condition of earthing arrangements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 542.1.2.1,<br>542.1.2.2,<br>542.1.2.3,<br>542.3,<br>543.1.1 |           |         |
| Presence and condition of main protective bonding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 543.3.2,<br>544.1.2                                         |           |         |
| Condition of consumer unit, or distribution board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 416.2<br>421.1.201<br>526.5<br>514.8.1                      |           |         |
| Presence of a 30mA Type A,B or F Bi-directional RCD/RCBO for the circuit supplying the intended solar socket. The RCD shall disconnect all live conductors including the neutral.                                                                                                                                                                                                                                                                                                                                                                                                                                            | 531.3.3<br>531.3.4.1<br>530.3.201<br>551.7.1                |           |         |

|                                                                                                                  |                                                           |  |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--|--|
| Condition of the wiring system supplying the intended socket.                                                    | 521.10.202<br>522.8.5<br>416.1<br>523<br>433.1<br>533.2.1 |  |  |
| Circuit is protected against overload.                                                                           | 433.1<br>433.1.1                                          |  |  |
| Confirm that there is not already a solar PV installation that could be adversely impacted by the plug in solar. | N/A                                                       |  |  |
| Is the socket in a suitable position so that the use of extension leads is not required.                         | N/A                                                       |  |  |
| Socket conforms to BS 1363 and is undamaged or deteriorated. If outside suitable IP rating.                      | 651.2(e)                                                  |  |  |
| Socket polarity correct when tested.                                                                             | 643.6                                                     |  |  |
| Socket earthed and earth loop impedance satisfactory when tested.                                                | 643.7.1                                                   |  |  |
| RCD for socket trips and meets required disconnection time when tested.                                          | 643.8                                                     |  |  |

| OUTCOME OF THE INSPECTION AND TEST                                                                                                                       |  |                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|
| Is the installation, and the intended socket, in a satisfactory condition for the connection of a plug-in solar device with an output not exceeding 800W |  |                              |  |
| If the outcome of the inspection and test is no, what remedial works are recommended to upgrade the installation to a satisfactory condition?            |  |                              |  |
|                                                                                                                                                          |  |                              |  |
| Address of premises                                                                                                                                      |  | Location of intended socket  |  |
| Date of Inspection                                                                                                                                       |  | Contact details of inspector |  |
| Name of Inspector                                                                                                                                        |  | Signature                    |  |

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## **GUIDANCE FOR THE CONSUMER**

1. You should only plug in one solar device in to your electrical installation.
2. That the plug-in solar device should complies with the governments Plug-in Solar Interim Product Specification.
3. The plug-in solar device should not exceed 800 Watts (3.5A) output.
4. You should notify your District Network Operator (they are the company that supplies electricity to your premises) that you have Plug-in Solar connected to your electrical installation.
5. You should not use extension leads to connect your plug-in solar.
6. You should follow the manufacturers installation and fixing instructions that should come with your solar PV equipment.
7. You should fix the equipment so that it is prevented from falling on to someone or something in high winds and snow fall.
8. You should seek expert advice before fixing the equipment to wall cladding or rain screen wall protection.
9. Check to ensure that your installation is not mounted on any combustible surface.
10. Ensure the installation of your equipment does not obstruct walkways, windows, doors, fire escape routes and firefighting access.
11. Check that your PV installation does not obstruct, or block, any fire detection equipment.
12. Check that your installation does not block any heating boiler flue or air intake grills.
13. Ensure that the equipment is properly ventilated to prevent overheating and check regularly the for the presence of litter and birdnesting materials are not in contact with the equipment.
14. If you live in a conservation area, check with your local authority that the installation of the equipment does not contravene any planning restriction.
15. If you live in rented or leased premises check that the owner or freeholder consents to the installation of your equipment.
16. Check with your premises insurance company to verify that your insurance cover is not invalidated by your proposed installation.
17. If in any doubt seek advice from a qualified professional before installing the PV equipment.