

System performance

210 Design of photovoltaic systems

Used by: 70-65-60/110 Grid connected photovoltaic system.

- **Design:** Complete the design of the photovoltaic system.
- **Standards:** To BS 7671, BS EN 62124 and in accordance with ENA 59/2-1 and To BS 7671, BS EN 62124 and in accordance with ENA G83/1.
- **Testing and commissioning:** Incorporate adequate measures to allow full testing and commissioning of the completed system.

Execution

620 Installing photovoltaic systems generally

Used by: 70-65-60/110 Grid connected photovoltaic system.

- **Standards:** To BS 7671;
To ENA 59/2-1;
and To ENA G83/1-1.
- **Installer:** Microgeneration Certification Scheme accredited.
- **Materials:** Separate dissimilar metallic materials to prevent bi-metallic corrosion.
- **Fixing equipment:** Fix independently of any other systems installation with zinc electroplated fasteners indoors and stainless steel fasteners outdoors.
- **Orientation:** Accurate and square to vertical and horizontal axes. Align adjacent items of switchgear on the same horizontal axis.
- **Cable installation:**
 - **Timing:** Complete installation of d.c. cabling before connecting to PV array.
 - **Routes and arrangement:** Minimize length of d.c. cable runs.

System completion

810 Inspection and testing

Used by: 70-65-60/110 Grid connected photovoltaic system.

- **Standards:** To BS 7671;
In accordance with ENA 59/2-1;
and In accordance with ENA G83/1-1.
- **Notice before commencing tests (minimum):** 24 h.
- **Witnessing of testing and commissioning:** Required.
- **Approval:** Obtain written approval of the Electricity Distributor.
- **Specialist commissioning engineer:** System manufacturer.