

## PV System - Installation Checklist

Installation Address	Inspection by		
	Date		Reference

### General Installation (electrical – ref IEC60364-6-61)

- Equipment compliant with standards, correctly selected & not damaged
- Equipment accessible for operation, inspection & maintenance
- Equipment and accessories correctly connected
- Particular protective measures for special location
- Equipment and protective measures appropriate to external influences
- System installed to prevent mutual detrimental influence
- Conductors connected and identified
- Conductors selected for current carrying capacity and voltage drop
- Conductors routed in safe zone or protected against mechanical damage
- Presence of fire barriers, seals and protection against thermal effects

### General installation (mechanical)

- Ventilation provided behind array to prevent overheating / fire risk
- Array frame & material corrosion proof
- Array frame correctly fixed and stable; Roof fixings weatherproof
- Cable entry weatherproof

### Protection against overvoltage / electric shock

- Live parts insulated, protected by barrier / enclosure, placed out of reach or Class II
- Array frame equipotential bonding present (only relevant if required)
- Surge protection devices present (only relevant if required)
- RCD provided (only relevant if required)
- Frame correctly integrated with existing LPS installation

### d.c. system

- Physical separation of a.c. and d.c. cables
- d.c. switch disconnecter fitted (to IEC60364-712.536.2.2)
- d.c. cables - protective and reinforced insulation (only relevant if required)
- All d.c. components rated for operation at max d.c. system voltage ( $V_{oc\ stc} \times 1.25$ )
- PV strings fused or blocking diodes fitted (only relevant if required)

### a.c. system

- a.c. isolator lockable in off position only
- Inverter protection settings to local regulations

### Labelling & identification

- General labelling of circuits, protective devices, switches and terminals (to IEC60364-6-61)
- PV system schematic displayed on site
- Protection settings & installer details displayed on site
- Emergency shutdown procedure displayed on site
- a.c. isolator clearly labelled
- d.c. isolator / junction boxes suitably labelled
- Signs & labels suitably affixed and durable