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 disconnector 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 (Voc stc x 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

PV Array Test Reports

Report reference number:	Contractors Name & Address: *3-e Electrical Ltd* *Pwllheli, LL53 5UE*
Installation address:	
Test date:	Signature:
Description of work under test:	Test Instruments:

String		**1**	**2**	**3**		
Array	Module					
	Quantity					
Array parameters	Voc(stc)					
	Isc(stc)					
Protective device	Type					
	Rating (A)					
	d.c. rating (A)					
	Capacity (kA)					
Wiring	Type					
	Phase (mm)					
	Earth (mm)					
String test	Voc(stc)					
	Isc					
	Irradiance W/m^2					
	Module Temp ^{0}C					
Polarity check						
Earth Continuity (where fitted)						
Connected to inverter (serial No.)						
Array insulation resistance Ref IEC 60364-713-04 Test method: Annex-1	Test Voltage					
	Pos-Earth (MΩ)					
	Neg-Earth (MΩ)					
Comments:						