

# Solar Inverter Commissioning Checklist

## Project & Site Details

Project Name

Location

Date

Commissioned By

Inverter Model

Serial Number

## Pre-Commissioning Checks

- ☐ Visual inspection of inverter and mounting
- ☐ Correct DC cable connections verified
- ☐ AC cable connections verified
- ☐ Earth/ground connections checked
- ☐ String voltages measured and within acceptable limits
- ☐ Polarity of DC connections verified
- ☐ All fuses/circuit breakers in correct state
- ☐ Clearance and ventilation adequate

## Commissioning Steps

- ☐ Switch ON inverter as per manufacturer instructions
- ☐ Check for any fault/error indication
- ☐ Grid voltage and frequency verified
- ☐ Confirm inverter synchronizes with grid
- ☐ Check inverter output voltage and current
- ☐ Check communication with monitoring system
- ☐ Settings/configurations as per design

## Test Results

| Parameter                         | Measured | Unit       |
|-----------------------------------|----------|------------|
| DC Input Voltage                  |          | V          |
| DC Input Current                  |          | A          |
| AC Output Voltage                 |          | V          |
| AC Output Current                 |          | A          |
| AC Output Frequency               |          | Hz         |
| Insulation Resistance (DC to GND) |          | M $\Omega$ |

Notes & Observations

Commissioning Sign-Off

Commissioned By

Signature

Date