

ELECTRICAL SAFETY TESTING

SOLAR PHOTOVOLTAIC TESTING

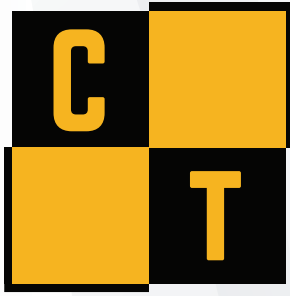


Caltek acquired specialisation in Solar PV Testing competency and capability relative to safety and quality standards. We are dedicated to ensuring the reliability, safety, and performance of Solar PV infrastructure through comprehensive testing and assessment services compliance to SS601:2014 and IEC62446-1:2016+A1:2018, IEC 60904-1 and IEC 60904-8

Solar PV testing helps verify the actual performance of solar panels under real-world conditions. This involves measuring factors like efficiency, power output, and energy yield. Manufacturers, installers, and consumers need to ensure that the panels are performing as expected to optimize energy production

With our expertise and State-of-the-Art Testing facilities in Electrical Device calibration, we have equipped our team with relevant skills, necessary validation and certification for Solar PV enabling the seamless transition to renewable energy and sustainability.

Our Team comprises of Professionals in Electrical Safety Testing with SOLAR PV Certification. Test equipment comes with Accredited Calibration and our Qualified Testing Engineers perform all the essential test to ensure compliance with all regulatory requirements. (LTA, BCA & EMA, Commercial Building owners.)



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TEST PERFORMED

1. Safety Test (E.g., Insulation Resistance, Ground & Bonding Arc-Fault Circuit Interrupter (AFCI))
2. Electrical Test: Open-circuit Voltage, String current tests Maximum Power Point Tracking (MPPT), I-V Curve Tracing
3. Performance Testing: Performance Ratio Calculation & Temperature Coefficient Testing
4. Preventive Maintenance Test include all accessories.
5. Inspection includes external and environmental check

LOCATIONS / APPLICATIONS

- Facilities Management Companies
- Commercial Building Owners
- SOLAR panel manufacturers
- Energy Consultants
- Environmental Organizations
- Energy Agencies and Regulators
- Solar Installation Companies



Calibration and Measurement: LA-2003-0292-C | Environmental Testing: LA -2022-0825-F