



**ARJUN TRADING COMPANY**

LUDHIANA | ESTABLISHED 1993

S O L A R   D I V I S I O N

# PRODUCT CATALOGUE

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Test instruments, protection and connection hardware for solar photovoltaic installation, commissioning and maintenance.



AUTHORISED DISTRIBUTORS



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## ABOUT ARJUN TRADING COMPANY

Arjun Trading Company was founded in Ludhiana in 1993 by S. Arjun Singh. Over three decades we have grown into one of north India's established suppliers of electrical, electronic and industrial automation products, serving panel builders, EPC contractors, OEMs and maintenance teams across Punjab and beyond.

The Solar Division brings together the products a photovoltaic installation actually needs: the instruments that commission and fault-find a string, and the hardware that connects and protects it. This catalogue covers both.

We are authorised distributors for **UNI-T** test & measuring instruments and **JiGO** electrical hardware, with stock held locally in Ludhiana for fast supply.

### AT A GLANCE

Established

**1993**

Head office

**Ludhiana, Punjab**

Divisions

**Automation · Measuring ·  
Switchgear · Solar**

Solar brands

**UNI-T · JiGO**

## WHAT IS IN THIS CATALOGUE

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All specifications are as published by the manufacturer and are subject to change without notice.

Products shown are representative; supply is subject to availability. Prices on request.

## SECTION ONE

# UNI-T Solar & PV Test Instruments

Instruments built for photovoltaic work: 1500 V DC-rated clamp measurement, live PV insulation testing, panel-powered MPPT checks, irradiance survey and a 1700 V DC multimeter for string work beyond ordinary meters.

## IN THIS SECTION



### UT219PV

Solar PV clamp meter



### UT503PV

PV insulation tester



### UT673PV

Solar MPPT meter



### UT673PV+

Solar MPPT meter · 2200 W



### UT381PV

Solar irradiance meter



### UT196

Solar Pro 1700 V DC multimeter

UNI-T

# UT219PV

## Solar PV Clamp Meter

A professional True RMS clamp meter built for high-voltage photovoltaic work: DC voltage to 2500 V, AC to 1500 V and AC/DC current to 1000 A on a 9999-count auto-ranging dual display. The 35 mm ultra-thin jaw reaches inside inverters and combiner boxes, and DC power measurement to 2500 kVA lets you check string output directly.

### KEY FEATURES

- 35 mm ultra-thin jaw suits inverter and combiner-box conductors
- Solar panel polarity indication with audible and visual alarm
- DC power measurement up to 2500 kVA
- Inrush / peak current capture and low-pass filter (LPF)
- Bluetooth 5.0 app connectivity; auto backlight, auto power-off
- External flexible clamp UT-CS09D extends range to AC 3000 A



### SPECIFICATIONS

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| DC voltage               | 999.9 V / 2500 V · ±(1.0% + 5)                   |
| AC voltage               | 999.9 V / 1500 V · ±(1.0% + 5)                   |
| AC / DC current          | 999.9 A · ±(2.0% + 5), True RMS                  |
| DC power                 | 999.9 kVA / 2500 kVA · ±(2.0% + 20)              |
| Resistance / Capacitance | Up to 99.99 kΩ / up to 1000 μF                   |
| Temperature / Frequency  | -40°C to 400°C / 5.0–999.9 Hz                    |
| Display                  | 9999-count dual LCD (voltage + current together) |
| Safety · Ingress         | CAT III 1500 V / CAT IV 600 V · IP65             |
| Connectivity · Power     | Bluetooth 5.0 app · 2 × AA batteries             |
| Size · Certification     | 295 × 73 × 50 mm · CE (EMC, LVD), cETLus, RoHS   |

UNI-T

# UT503PV

## PV Insulation Resistance Tester

Measures insulation resistance on **energised (live) PV strings** at up to DC 1000 V — no system shutdown needed — as well as ordinary non-live insulation testing, with automatic AC/DC voltage recognition. Reads up to 4000 MΩ with auto discharge after every test.



### KEY FEATURES

- Live PV string insulation testing up to DC 1000 V
- Test voltages 125 V / 250 V / 500 V / 1000 V
- Automatic discharge after test; high-voltage alarm
- Stepping voltage and timed measurement
- Compare (pass / fail) function; 1000-record memory
- USB cable and Bluetooth app data communication

### SPECIFICATIONS

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Test voltages         | DC 125 V / 250 V / 500 V / 1000 V                       |
| Insulation range      | Up to 4000 MΩ (live PV IR and standard IR)              |
| IR accuracy           | $\pm(1.5\% + 5)$ to 1000 MΩ · $\pm(5\% + 6)$ to 4000 MΩ |
| Voltage measurement   | DC 5–1000 V, AC 5–600 V · $\pm(1\% + 4)$                |
| Short-circuit current | < 1.5 mA (IR) · < 1.2 mA (PV IR)                        |
| Data storage          | 1000 measurements · USB + Bluetooth app                 |
| Safety · Ingress      | CAT II 1000 V / CAT III 600 V · IP54 (cap closed)       |
| Power                 | 6 × LR6 AA alkaline cells                               |
| Size · Weight         | 161 × 117 × 63 mm · approx. 0.5 kg                      |
| Certification         | CE, UKCA                                                |

## UNI-T

# Solar MPPT Meters

Find any abnormality in a solar panel or string by measuring maximum power, peak power voltage and current, open-circuit voltage and short-circuit current — all results on one screen. MC4 test leads plug straight into the string.


**UT673PV**

|                  |                                                |
|------------------|------------------------------------------------|
| Max power (Pmax) | 5–800 W · ±(1.0% + 10)                         |
| Voc / Vmp        | DC 12–60 V · ±(1.5% + 5)                       |
| Isc / Imp        | DC 0–35 A · ±(1.5% + 5)                        |
| Power supply     | Powered by the panel under test — no batteries |
| Display          | Large 52 × 66 mm LCD, all results at once      |
| Safety · Cert.   | CAT 0 60 V · CE, cETLus, RoHS                  |


**UT673PV+**

|                  |                                 |
|------------------|---------------------------------|
| Max power (Pmax) | 5–2200 W · ±(1.0% + 10)         |
| Voc / Vmp        | DC 10–150 V · ±(1.5% + 5)       |
| Isc / Imp        | DC 0–20 A · ±(1.5% + 5)         |
| Connectivity     | Bluetooth app with data storage |
| Power · Size     | 3 × AAA · 169 × 81 × 46 mm      |
| Safety · Cert.   | CAT 0 150 V · CE                |

## SHARED FEATURES

- Automatic MPPT test — every value on one display
- Measures Pmax, Vmp, Imp, Voc and Isc
- Manual and automatic test modes with data hold
- MC4 test leads included for direct string connection
- Reverse polarity, overvoltage, overcurrent and thermal protection
- For single panels and PV strings

UNI-T

# UT381PV

## Solar Irradiance Meter

Measures solar irradiance to 1400 W/m<sup>2</sup> under natural or simulated sunlight, with dual temperature channels and built-in inclination and azimuth sensors for panel alignment. The IP65, UV-resistant body survives 2 m drops, logs 12,800 data sets, and links to the iENV app over Bluetooth.

### KEY FEATURES

- Irradiance survey for installation, O&M and PV lab testing
- Dual channels for ambient and panel temperature
- Inclination + azimuth sensors set direction and tilt angle
- iENV mobile app via Bluetooth (100 m range)
- 12,800-set data logging at 1–60 minute intervals
- Integrates with the UT541 15 kW PV I-V curve analyzer
- Quick-release mounting bracket included



### SPECIFICATIONS

|               |                                                       |
|---------------|-------------------------------------------------------|
| Irradiance    | 0–1400 W/m <sup>2</sup> · resolution 1 · ±5.0% rdg ±5 |
| Temperature   | –40 to 120°C · ±1°C (–10 to 75°C)                     |
| Inclination   | –90.0° to +90.0° · ±1.5° to ±3.5°                     |
| Azimuth       | 0–360° · ±7°                                          |
| Data storage  | 12,800 sets · Bluetooth + iENV app                    |
| Protection    | IP65 · UV-resistant · 2 m drop rated                  |
| Power         | 2 × AA · approx. 95 h runtime · 30-min auto-off       |
| Environment   | –20 to 60°C · ≤90% RH · ≤2000 m altitude              |
| Size · Weight | 201 × 54 × 34 mm · approx. 212 g                      |
| Certification | CE, RoHS                                              |

## UNI-T · SOLAR PRO

# UT196

## 1700 V DC True RMS Professional Multimeter

A rugged "Solar Pro" multimeter measuring up to **DC 1700 V** and AC 1500 V — beyond ordinary 1000 V meters — built for high-voltage PV string work outdoors. True RMS accuracy on a 6000-count dual display with bar graph, in an IP65, 2 m drop-resistant body.

### KEY FEATURES

- DC 1700 V / AC 1500 V — made for long PV strings
- True RMS, 6000-count dual display with analog bar graph
- IP65 dust and water protection; 2 m drop resistant
- Non-contact voltage (NCV) detection
- Low-pass filter and low-impedance (LoZ) modes
- Max/Min, peak hold, relative mode; built-in flashlight



### SPECIFICATIONS

|                  |                                                |
|------------------|------------------------------------------------|
| DC voltage       | Up to 1700 V · $\pm(0.2\% + 5)$                |
| AC voltage       | Up to 1500 V · $\pm(0.8\% + 3)$ , True RMS     |
| Resistance       | Up to 60 M $\Omega$ · $\pm(0.8\% + 2)$         |
| Capacitance      | Up to 60 mF · $\pm(1.9\% + 5)$                 |
| Frequency        | Up to 1 MHz · $\pm(0.08\% + 4)$                |
| Display          | 6000 counts, dual display with bar graph       |
| Safety · Ingress | CAT III 1000 V / CAT IV 600 V · IP65, 2 m drop |
| Power            | 9 V battery · auto power-off approx. 15 min    |
| Size · Weight    | 195 × 95 × 58 mm · 485 g                       |
| Certification    | CE, UKCA, cETLus                               |

## SECTION TWO

# JiGO Solar Hardware

The hardware that connects and protects a photovoltaic array: DC and AC surge protection, string fuses, MC4 connectors and crimping tools, UV-stabilised cable ties, cable glands, waterproof enclosures and earthing.

## IN THIS SECTION



**JG-PV-1000**

DC surge protection



**JG-C40**

AC surge protection



**YRPV-30**

Solar DC fuse & holder



**MC4**

Solar connectors & tools



**Transparent DB**

Solar DCDB & ACDB boxes



**Earthing**

Electrodes, rods & accessories

## JIGO | SURGE PROTECTION

# Surge Protection Devices

Protects panels, combiner boxes, inverters and distribution boards against lightning-induced and switching surges. Plug-in replaceable modules with a visual status window, on 35 mm DIN rail. **JG-PV-1000** covers the DC side; **JG-C40** covers the AC side.



### JG-PV-1000 DC · SOLAR

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Versions                    | 2P (+ / -) · 3P (+ / - / earth)         |
| Rated voltage $U_n$ / $U_c$ | 1000 V DC                               |
| In / I <sub>max</sub>       | 20 kA / 40 kA (8/20 $\mu$ s)            |
| Protection level Up         | $\leq 3.8$ kV · response $\leq 25$ ns   |
| Type · Standard             | Type 2 SPD · IEC 61643-31 / EN 50539-11 |
| Mounting                    | 35 mm DIN rail · -40°C to +80°C         |

- Visual status window — replace the module when it turns red
- Flame-retardant thermoplastic enclosure



### JG-C40 AC · PANEL

|                              |                                           |
|------------------------------|-------------------------------------------|
| Versions                     | 2P (L-N, single phase) · 4P (three phase) |
| Max continuous voltage $U_c$ | 420 V AC                                  |
| In / I <sub>max</sub>        | 20 kA / 40 kA (8/20 $\mu$ s)              |
| Protection level Up          | $\leq 2.0$ kV                             |
| Type · Standard              | Type 2 (Class C) SPD · IEC/EN 61643-11    |
| Mounting                     | 35 mm DIN rail, pluggable modules         |

- Replaceable plug-in protection modules
- Fit at array combiner box, inverter DC input and AC distribution board

## JIGO | STRING PROTECTION

# YRPV-30 Solar DC Fuse & Holder

Overcurrent protection for solar strings, combiner boxes and inverter inputs: gPV cylindrical fuse links to IEC 60269-6 with matching finger-safe DIN-rail holders.



## YRPV-30 gPV Fuse Link

|               |                                          |
|---------------|------------------------------------------|
| Type          | gPV solar DC fuse link (full-range PV)   |
| Size          | 10 × 38 mm cylindrical cartridge         |
| Rated voltage | 1000 V DC                                |
| Rated current | Up to 30 A (string-size ratings stocked) |
| Standard      | IEC 60269-6 (DC-PV)                      |

- One fuse per string polarity in the combiner box
- Visible holder hinge for quick isolation and fuse change



## YRPV-30 Fuse Holder

|            |                                         |
|------------|-----------------------------------------|
| Type       | 10 × 38 mm PV fuse holder, finger safe  |
| Rating     | 30 A at 1000 V DC                       |
| Withstand  | 20 kA                                   |
| Wire range | 1–10 sq mm                              |
| Mounting   | 35 mm DIN rail · do not open under load |

- Pairs with JG-PV-1000 DC surge protection
- Fuse links sold separately from holders

## JIGO | CONNECTION

# MC4 Connectors & Crimping Tools

The connector family used throughout a photovoltaic array — in-line pairs, Y and T branch splitters for paralleling strings — plus the crimping tools that terminate them properly.



## JG-MC4

MC4 solar connector, male + female pair



## JG-MC4 YI-2

Y branch, 2-way parallel



## JG-MC4 YI-3

Y branch, 3-way parallel



## JG-MC4 TI-2

T branch, 2-way



## JG-MC4 TI-3

T branch, 3-way



## JG-MC4 TI-4

T branch, 4-way



## FSE-2546B

MC4 crimping tool for solar PV cable, 2.5 / 4 / 6 sq mm, with ratchet action for repeatable crimps.



## A-2546B

MC4 crimping tool, 2.5–6 sq mm, for field termination of MC4 crimp contacts.

- Locking latch, tool-release design
- Panel and enclosure mount pairs available

- Crimp contacts stocked separately
- UV-stabilised housings for outdoor life

## JIGO | CABLE MANAGEMENT

# Cable Ties, Glands & Bimetallic Lugs



UV NYLON



STAINLESS STEEL

## UV & Stainless Steel Cable Ties

Black UV-stabilised nylon ties for DC string wiring, module frames and outdoor cable runs, where an ordinary natural or white tie will go brittle in sunlight. Self-locking pawl, full range of lengths and widths.

- Lengths stocked from 100 mm to 400 mm
- Black UV-stabilised grade for outdoor and rooftop use
- SS304 ball-lock stainless ties — fireproof, for high-heat sites
- Also available in white nylon



## PG Nylon Cable Glands

Grey nylon compression-seal glands that grip and strain-relieve cable at every panel, combiner-box and enclosure entry. Stocked across the full PG range.

PG7

PG9

PG11

PG13.5

PG16

PG21

PG25

PG29

PG36

PG42

PG48

PG63

## DTL Bimetallic Cable Lugs

CU - AL



Essential in every solar plant: aluminium DC and AC cable terminates onto copper busbars and terminals through a **copper-aluminium friction-welded lug**, stopping galvanic corrosion at the joint. Inline Cu-Al connectors join aluminium runs to copper tails.

**DTL-2 lugs: 16 · 25 · 35 · 50 · 70 · 95 · 120 · 150 · 185 · 240 · 300 · 400 · 500 · 630 sq mm**

JG-BM-IL inline connectors: 10 · 16 · 25 · 35 sq mm

## JIGO | ENCLOSURES

# Transparent DB & Distribution Boxes



## Transparent DB Boxes

IP65

### FOR SOLAR DCDB & ACDB

The standard enclosure for solar **DC distribution boxes** and **AC distribution boxes** — fit the DC fuses, SPDs and isolator inside, and breaker status stays visible through the polycarbonate lid without opening the box. UV-stable, weatherproof, DIN-rail ready.

**200×150×100**

SINGLE-STRING DCDB

**200×200×130**

DCDB + SPD COMBO

**280×190×130**

ACDB / COMBINER



**Ready-wired solar DCDB** — DC fuses, MCB & JG-C40 SPDs on DIN rail, glanded cable entries.



**AC distribution box** — breaker status visible through the transparent lid, box stays sealed.

## SHPN MCB Distribution Boxes

IP65

SH · HA SERIES

Weatherproof MCB boxes for the AC side — solar main switch and distribution MCBs beside the inverter.


**SH SERIES 4 · 6 · 9 · 12 · 18 · 24 · 36 way**

**HA SERIES 4 · 8 · 12 · 18 · 24 way**
**Sizes (way · mm)**

6w 190×160×100 · 12w 265×220×110 · 18w 370×220×110 · 24w 256×370×110 · 36w 370×370×110

**Build**

Polycarbonate, RAL-7035 grey · transparent smoked side-opening door · silicone gasket with EVA grommet

**Hardware**

Plated mild-steel DIN channel · chrome-plated M4×19 screws · CE, RoHS

## EARTHING SOLUTIONS

# Earthing for PV Plants

Every photovoltaic plant needs a low-resistance earth for module frames, mounting structure, inverters and surge protection. Chemical electrodes, rods and all accessories are stocked.

**GI Chemical Electrode**

Maintenance-free chemical earthing

**Copper Bonded Electrode**

Chemical earthing, longer service life

**Copper & Bonded Rods**

Threaded and pointed, incl. 17 mm

**GI Earthing Rods**

Bolted connection tab, general duty

**Earth Pit Cover**

Protects and marks the earth pit

**Earthing Compound**

Back-fill for low soil resistance

## ALSO STOCKED

- GI earthing strip and wire
- Copper earthing wire
- Pure copper chemical electrodes
- Clamps and connection accessories



# Everything Solar. One Powerful Source.

**1993**

ESTABLISHED

**30+**

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**2,000+**

GENUINE PRODUCTS

**25+**

BRANDS



## ARJUN TRADING COMPANY

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