



# InventoNeX

EMPOWERING FUTURE GENERATIONS



## PRODUCT BROCHURE

Our product brochure showcases a comprehensive range of high-quality solutions for solar power installations. As a trusted partner in the renewable energy sector, we provide everything you need for efficient and reliable solar projects.



Call Now.  
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## ABOUT INVENTONEX

InventoNex is a pioneering venture dedicated to delivering cutting-edge solutions for the renewable energy sector. With a focus on empowering solar EPC companies and driving innovation, InventoNex offers a comprehensive portfolio of products tailored to meet the demands of modern energy systems. Our offerings include:

- **Solar BoS Kits:** Complete solutions for solar plant installations, including ACDB, DCDB, cables, and other essential components.
- **Inverters:** A wide range of advanced inverters, including hybrid and micro inverters, designed for optimal performance and reliability.
- **Solar Panels:** High-efficiency solar panels from renowned brands like Saatvik, ensuring maximum energy output.
- **Battery Systems:** Reliable energy storage solutions to enhance energy independence.
- **Accessories:** From cable ties to wiring systems, we provide everything needed for seamless installations.

As the authorized distributor of Deye inverters in Kerala, we deliver world-class inverter technology, ensuring superior performance and longevity. Our partnerships with top brands like Deye, Saatvik, and Apar further reflect our commitment to providing premium-quality products.

At InventoNex, our mission is to lead the renewable energy industry by offering innovative solutions that power businesses and communities toward a sustainable and connected future.





# Deye

SCAN FOR PRODUCT INFO



INVERTERS

## DEYE

### **Single Phase String Inverter :**

This series on-grid inverter power ranges from 1.5-10.5kW, which is suitable for the residential rooftop applications. It comes with one or two MPPT, applicable to single alignment and multiple alignments rooftop. What's more, the new product- SUN-10.5K-G is one of the maximum power models of single-phase on-grid inverter on the market. Solution and service by Deye - professional single phase string inverter manufacturer.

### **Three Phase String Inverter :**

Deye three-phase on-grid inverter power range is from 4kW to 110kW with 230/400Vac. So, it can connect to utility grid(230/400V) directly without transformer. All the inverters are equipped with LCD display and buttons, easy operation and maintenance specially for remote and poor areas.

For the SUN-110K-G03, it has 6 MPP trackers and 24 pairs of strings. The Max. DC input power is up to 150kW. So, it can save equipment investment via connecting more PV modules. Solution and service by leading 3 phase string inverter manufacturer.

### **Three Phase String Inverter(LV) :**

This series 3 phase grid-tie inverter output voltage is 127/220V, which is designed for 127/220V grid of South American areas. The product portfolio covers from 6kW to 50kW which is able to satisfy majority needs of residential and commercial PV plants. Deye 3 Phase Grid Tie Solar String Inverter(LV)

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# Deye

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INVERTERS

## DEYE

### Hybrid Inverter :

An on-grid inverter's main job is to convert DC power generated from the PV array into usable AC power. Hybrid inverters go a step further and work with batteries to store excess power as well. In the developing world, hybrid inverters are more of a necessity to compensate for weak or intermittent grids or a lack of grid electricity all together.

Deye hybrid inverters include single phase 3-16kW and three-phase 8-12kW, For the SUN-3K-SG04LP1-24-EU, it uses 24V battery bank and the rest of them adopts 48V battery. Also, the SUN-16K-SG01LP1-EU is the max single phase hybrid inverter on the global market.

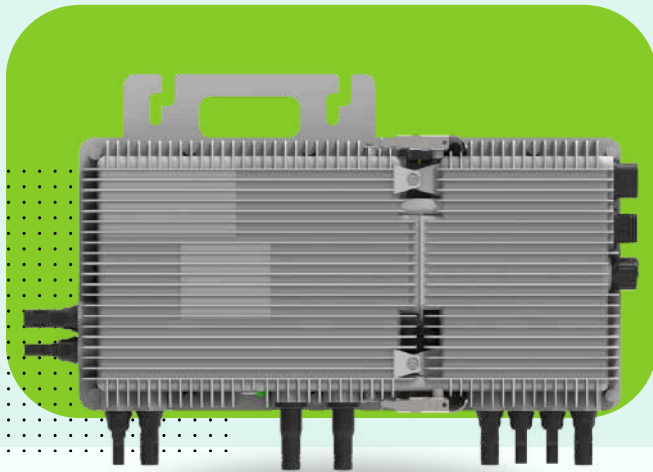
The Grid-interactive inverter consists of several hardware elements. The Grid-interactive inverter controls and monitors the connection of the electricity from the power plants. In addition, it also controls the disconnection of excess power from the plants. It ensures the dispatch of power at the peak time based on demand.

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INVERTERS

## DEYE

### Microinverter

Deye microinverters power ranges from 300W to 2000W, and it comes with different output voltage 220V/230V/127V. It supports multiple communication methods WIFI/PLC/Zigbee. Thanks to the MECD, communication gateway, the microinverter can be turned off remotely and immediately.

Compared with string inverter, microinverter can harvest maximum power of each panel for the independent MPPT design. Also, it gives you module level monitoring, making the O&M easier. Solution and service by Deye - famous Microinverter Manufacturer

There are two general classifications of power optimizers: analog and digital. Typically, an analog optimizer uses a discrete control to regulate the output from the source. In a sense, it is similar to the microinverter discussed above. However, unlike the microinverter, it does not use any semiconductor logic to accomplish its task, instead relying solely on the electrical signals it senses from the input voltage. In this respect, it is distinct from a load regulator, which monitors and controls the maximum amount of energy drawn by the equipment.

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SOLAR PANELS

## SAATVIK

The Saatvik Bifacial N-TOPCon module marks a significant advancement in solar technology. It features bifaciality and N-type passivation, resulting in low light-induced degradation (LID), higher power generation, and efficiency up to 22.5%. This module performs well in low light and high temperatures, generating 10-30% more power than P-type modules. It includes 16BB half-cut cells and can withstand harsh conditions with extended wind and snow loads of 2400 and 5400 pascals, respectively. With rigorous testing for defects, this module offers enhanced durability and efficiency, making it a promising solution for diverse solar installations.



HIGH MODULE CONVERSION EFFICIENCY



OUTSTANDING POWER PERFORMANCE EVEN AT LOW IRRADIANCE



HIGH PID RESISTANT



EASY TO MOUNT AND GROUND



IP68 JUNCTION BOX WITH EXTENDED CABLE LENGTHS FOR EASIER INSTALLATION



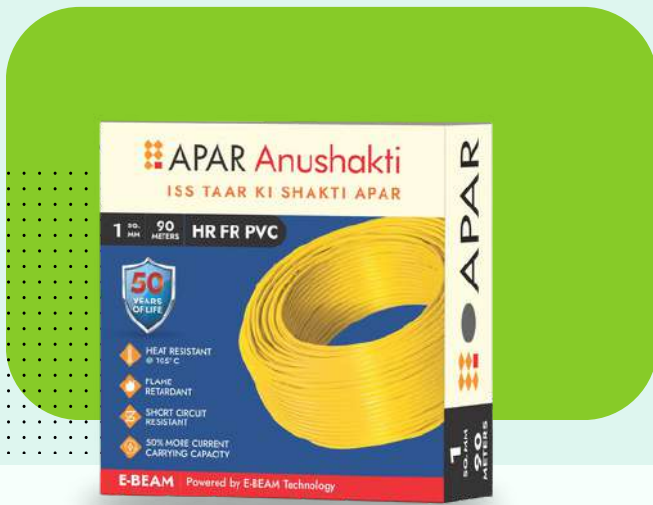
N-TYPE WITH VERY LOW LID

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Tomorrow's solutions today

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CABLES

## APAR DC CABLES

- Backed by our 30 years of experience in manufacturing Elastomeric Insulated Cables, we introduced a range of Solar Cables for emerging PV based renewable energy installations.
- APAR has installed an Electron Beam Irradiation facility with 1.5 MeV, 2.5 MeV, and 3 MeV accelerators and uses this technology to cross-link elastomeric insulation and sheaths of Solar DC Cables.
- Power Cables used for solar projects with XLPE insulation armoured or unarmoured are specially manufactured with UV stabilised PVC ST2 outer sheathing with in-house specially formulated compounds to sustain the direct/diffused/indirect sunlight in case of exposed cables at any stage of installation.
- APAR has several international certifications and manufactures these cables conforming to various international specifications. EN 50618: 2014, TUV 2pfg 1990/05.12 Standard, IEC 62930: 2017, UL 4703
- Solar Cables are also available with HEPR (Ei6) insulation as per EN 50363-1 & EVA (EM8) sheath as per EN 50363-2-1 (chemical resistance: mineral, acid and alkali oil, ammonia), which is generally to EN 50618/2014.

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## POWDER COATED METER BOX

A powder-coated meter box is a protective enclosure, typically used to house electrical meters or other electrical components, that has been coated with a powder-based paint. Powder coating is a dry finishing process where a powder made of pigment and resin is electrostatically applied to a surface and then cured under heat, forming a smooth, durable, and protective layer.

### **Key Features of a Powder-Coated Meter Box:**

- **Corrosion Resistance:** The powder coating provides an excellent barrier against moisture, reducing the risk of rust and corrosion, especially in outdoor environments.
- **Durability:** The coating is thick, uniform, and more resistant to scratches, chipping, and fading than traditional liquid paint.
- **Weather Protection:** It enhances the meter box's ability to withstand harsh weather conditions such as rain, UV exposure, and humidity.
- **Aesthetic Appeal:** Powder-coated surfaces tend to have a more polished, attractive finish with options for a variety of colors and textures.
- **Environmental Safety:** Powder coating is more eco-friendly than liquid paint, as it contains no solvents and releases little to no volatile organic compounds (VOCs) during the application process.





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CABLE TIES

## CONRAD

Cable ties available on Conrad are versatile fastening devices used for bundling and securing cables or objects. They are typically made of nylon or other durable materials and come in various sizes and strengths to suit different applications. These ties are easy to use, featuring a self-locking mechanism that ensures a secure hold. They are widely used in industries like electrical work, construction, and DIY projects for organizing wires, cables, and other materials efficiently.

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# HENSEL

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SOLAR ON-GRID AC COMBINER BOX THREE PHASE – HENSEL ENCLOSURE

## HENSEL

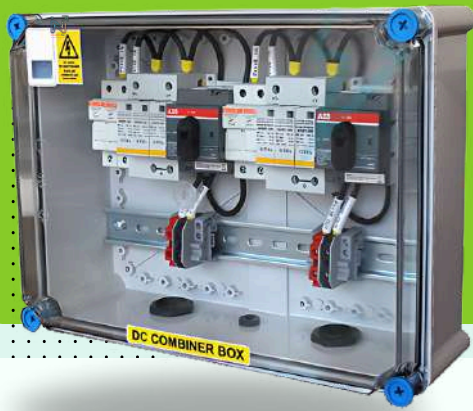
- It provides Type 2 Three-phase SPD for Surge and Miniature circuit breaker with 10/16/32A for overcurrent protection required for the on-grid inverter.
- Suitable for a three-phase system with a capacity from 5 KW to 12 KW on-grid inverter.
- Makes AC side wiring easy.
- Suitable for solar OnGrid AC side installation.
- Makes AC side wiring easy.
- Three-phase SPD for surge protection.
- Over-current protection with MCB.
- Enclosure: Hensel make IP65 rated Waterproof poly-carbonate Enclosure with a transparent lid, suitable for outdoor installation.
- Provide Polycarbonate Transparent lid
- Input Connections are provided with Connectwell / Salzer terminal connectors
- Dimension: 9 Way (200 x238x111mm)
- MCB current rating can be customized as 10A to 32A as per customer inverter size.
- Colour: grey
- Weight: 0.93kg

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# ABB

V-GUARD

SOLAR ON-GRID DUAL STRING DC DISTRIBUTION BOX WITH 1000V

## DC COMBINER BOX

- On-grid 2 in 2 out DCDB is suitable for accompanying on-grid inverter up to 12 kW in size with Dual MPPT
- DCDBs expect 2 string of PV panels up to maximum of 19 no's in series.
- The DCDB is connected between PV panels and the on-grid inverter.
- Max PV voltage is 1000 V
- Max PV current is 10 A per string.
- DCDB is fitted with 2 sets of 15 A Fuse on the positive and negative side, and DC SPD for protecting from surge.
- DCDB also contains a secondary protection of 16/ 32 A 1000V DC Switch which is to be used as a switch in case of operational maintenance to turn PV string on and off.
- IP 66/67 transparent top Tribox provides waterproof protection.
- Input and output are connected through Cable glands and Connectwell terminal connectors.
- Output Connections are provided with Salzer / Connectwell Terminal connectors
- Dimension: 380x280x130 mm

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ELECTRICAL EARTHING/SINGLE SPIKE

# LIGHTNING ARRESTER

Specifications	Single Spike LA	
Complied To	IS/IEC 62305-3:2010, IEC 62561-2:2018	
<b>Vertical Air Termination Rod</b>		
Base Material/Material	Low Carbon Steel (Tata/Jindal/Vizag)	
Base Coating Material	Nickel	
Coating Material	99.9% Pure Electrolytic Grade Copper Anode (Mitsubishi Luvata Japan)	
Coating Thickness	250/100 Microns (avg.)	
Diameter	16mm	20mm
Available Length	1m, 2m	
No Of Spikes	1	4
Tin Coating on Spikes	10 microns (avg.)	
<b>Insulated Base</b>		
Material	Nylon	
Length x Width x Height	100mm x 100mm x 15mm	

- Copper Bonded Vertical Air Termination Rods with Tinned Tip provides Oxidation free striking area
- UV Treated Nylon Insulated Base for better isolation and longer life
- Pressed Area for interconnection or connecting down conductors
- Readymade Lightning Arrester Extender for ease of extension (Optional)

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ELECTRICAL EARTHING/A FERTILISER FOR ELECTRICAL EARTHING

## EXCEL EARTHING COMPOUND

Excel Earthing Compound is a mixture of minerals having the character of reducing the soil resistivity with absorbing & retaining moisture for longer periods by providing continuous resistance against corrosion. It maintains constant soil resistance and minimises seasonal variations for the better working life of the grounding system, improving conductivity of the earth electrode and ground contact area throughout its lifetime.

## COPPER BONDED STRIP

Nickel Sealed Copper Bonded Strips are mainly used for Electrical Earthing and Lightning Protection Application, which includes Earthing Conductor, Lightning Down Conductor, Lightning Mesh Formation etc.



The combination of steel and copper Provides a Cost-Effective Solution substituting pure copper. They are available in standard Coating Thickness of 100/250microns.

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## EARTH PIT CHAMBERS

Earth Pit/Inspection Chambers are provided to safely enclose the Earthing System, for carrying out maintenance, Inspection and Testing Purpose. To avoid masonry work at site, Excel Earthings provides ready-made earth pit chambers with removable lid made of high-density UV Resistant Polypropylene/Poly Vinyl Chloride Confirming to IEC 62561-5. They are designed in such a way to minimise the effect due to ageing, crack while installed in soil

## TERMINAL STRIP / EARTH BENCH

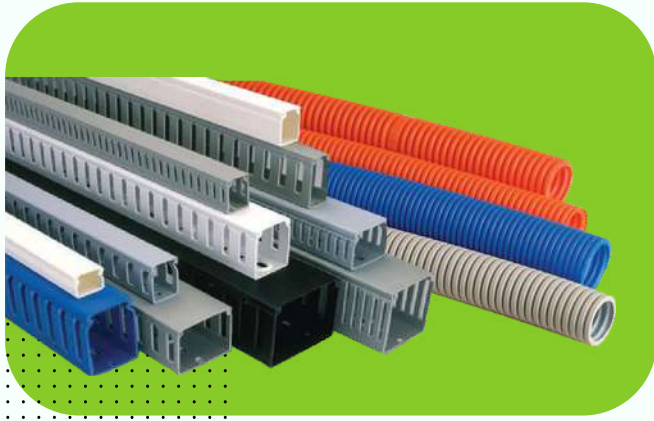
Earth Bench/ Terminal Strip provides a convenient common earthing point for electrical installation and Lightning Protection applications.



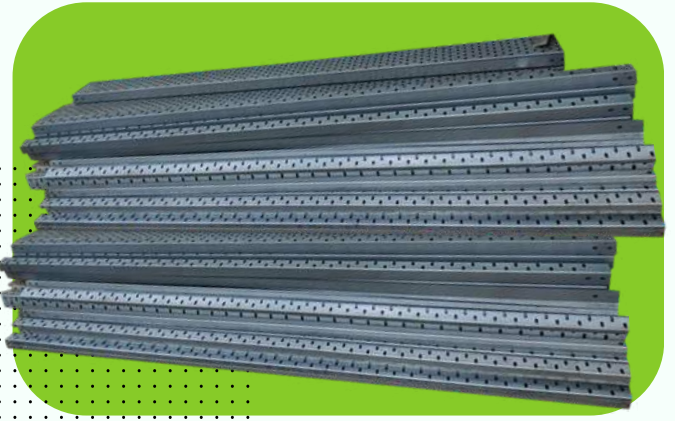
It also acts as Equipotential Bonding Bars, which is used to equalise the potential difference between extraneous conductive parts and exposed Conductive parts. They are made of Copper/Stainless Steel. Nylon Insulated Strip Holders are also provided for better insulation against surface of contact.



# OTHER PRODUCTS



**CABLE TRAYS &  
FASTENERS**



**CABLE DUCTS &  
HOSE**



**SOLAR CONNECTORS**



**EARTH PIT CHAMBERS**



**SOLAR CONNECTORS**



**COPPER/ALUMINUM  
ARMED CABLES**

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# BEST SOLAR BOS KIT



INDIA'S PREFERRED SOLUTION FOR SOLAR ENERGY SYSTEMS

## **SOLAR BOS KIT FOR PM SURYAGHAR**

As the solar market in India becomes increasingly competitive, we understand the pressure to balance cost and performance. Our Solar BoS Kits are designed to deliver reliability, affordability, and efficiency, making them ideal for the PM Suryaghar Mufti Yojana and other solar initiatives. Balance of System (BoS) components are a critical element of any solar installation, accounting for 50% of total project costs. Our kits streamline this complexity by providing a comprehensive, high-quality solution for converting DC energy from solar panels into usable AC power.

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SOLAR BOS KIT

# KEY FEATURES

- Well-Equipped Kits: Includes cables, switches, enclosures, fuses, and more.
- Cost-Effective: offering excellent value for large-scale projects.
- Durable Construction: High-strength materials ensure long-lasting performance.
- Easy Installation: Compact and thoughtfully designed for quick and efficient setup.
- Rust Resistance: Built to withstand challenging environmental conditions.
- Quick Dispatch: Ready for shipment within 24 hours. (Transportation charges are additional)
- Versatility: Compatible with commercial, residential, agricultural, and industrial solar systems.



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# InventoNeX

EMPOWERING FUTURE GENERATIONS



**Deye**



**KANBERY**<sup>®</sup>  
Our Performance For Your Safety...



**SAATVIK**



**APAR**  
Tomorrow's solutions today



**ABB**



**ONRAD**



**SCAN TO  
CHAT WITH US**



**HENSEL**



**V-GUARD**

Let's partner up! Contact us today to discuss how you can start offering high-quality solar products and boost your business growth.

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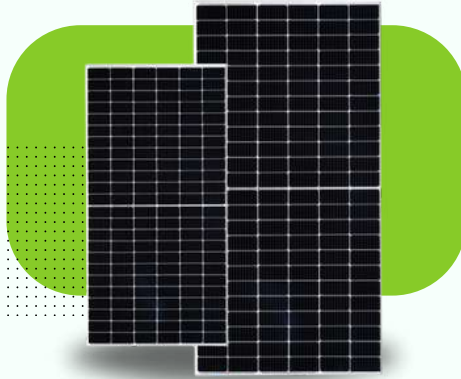


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- DEYE ON-GRID INVERTERS UP TO 136 KWH
- DEYE HYBRID UP TO 50 KWH



- SAATVIK TOP-CON SOLAR MODULES



- DEYE LITHIUM-ION BATTERIES

# BEST SOLAR BOS KIT



- AC COMBINER BOX



- DC COMBINER BOX



- POWDER COATED METER BOX



- CABLE TIES



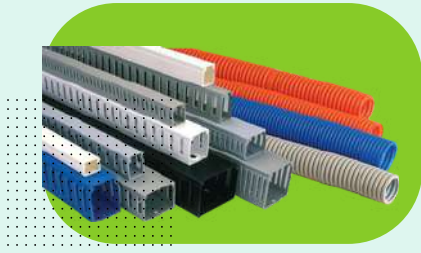
- LIGHTNING ARRESTER



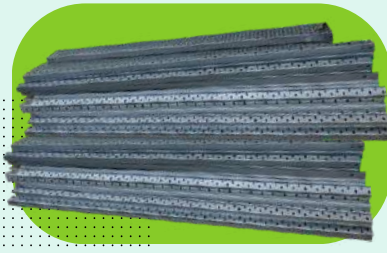
- COPPER/ALUMINUM ARMED CABLES



# BEST SOLAR BOS KIT



• CABLE TRAYS & FASTENERS



• CABLE DUCTS & HOSE



• SOLAR CONNECTORS



• EARTH PIT CHAMBERS



• SOLAR CONNECTORS



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