



Product Brochure

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Reinforced Cement Concrete (RCC)

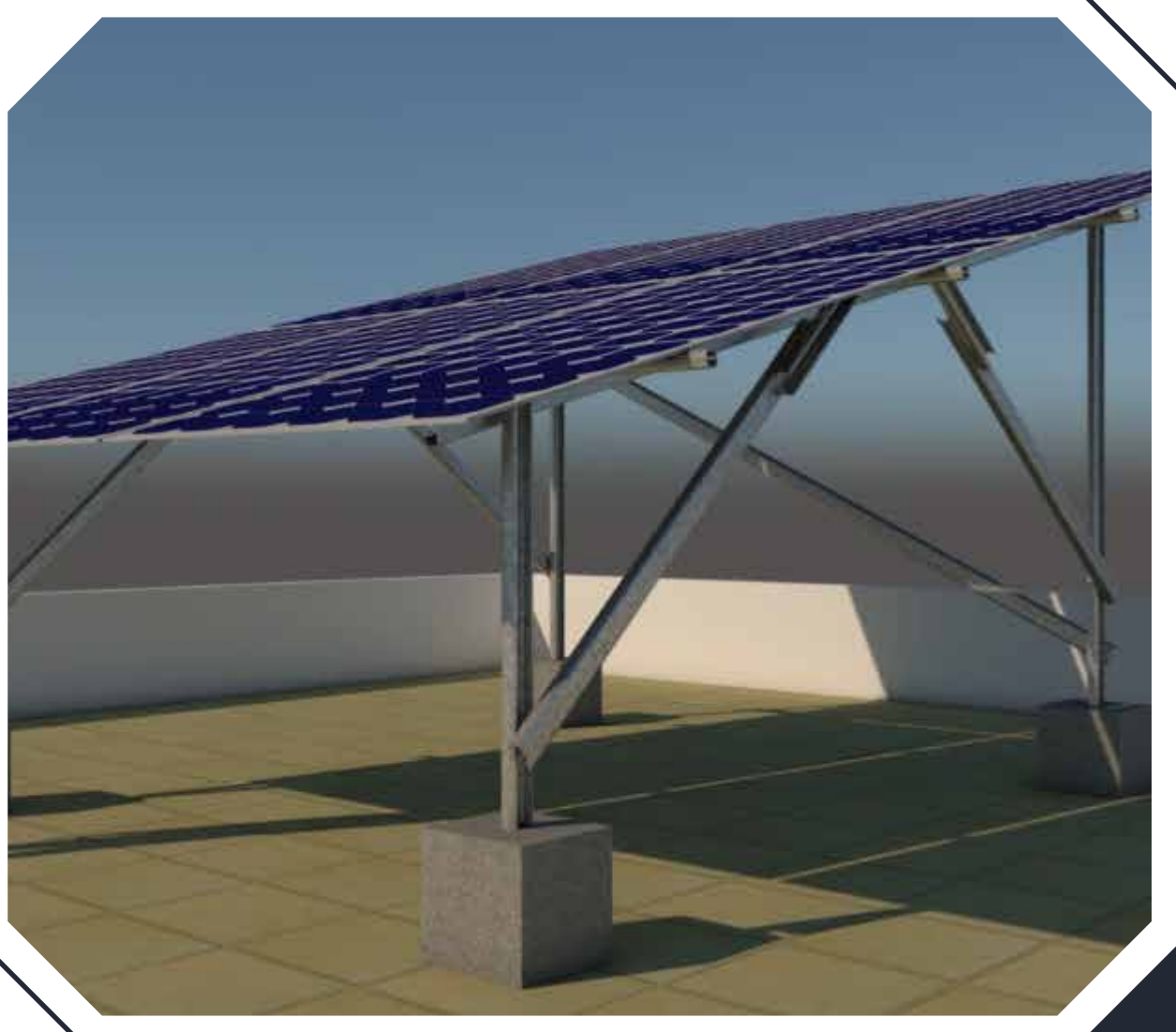
HDGI Structure

Designed for flat concrete roof, optimizing tilt and stability.

Raw Material - Magnelis, HDG, Galvalume

Micron Layer - 80 Microns.

Anchoring Type - Self-Drilling Fasteners



Pre GI Structure

Designed for flat concrete roof, optimizing tilt and stability.

Raw Material - Pre-Galvanized Iron

Micron Layer - 90 GSM.

Anchoring Type - Self-Drilling Fasteners

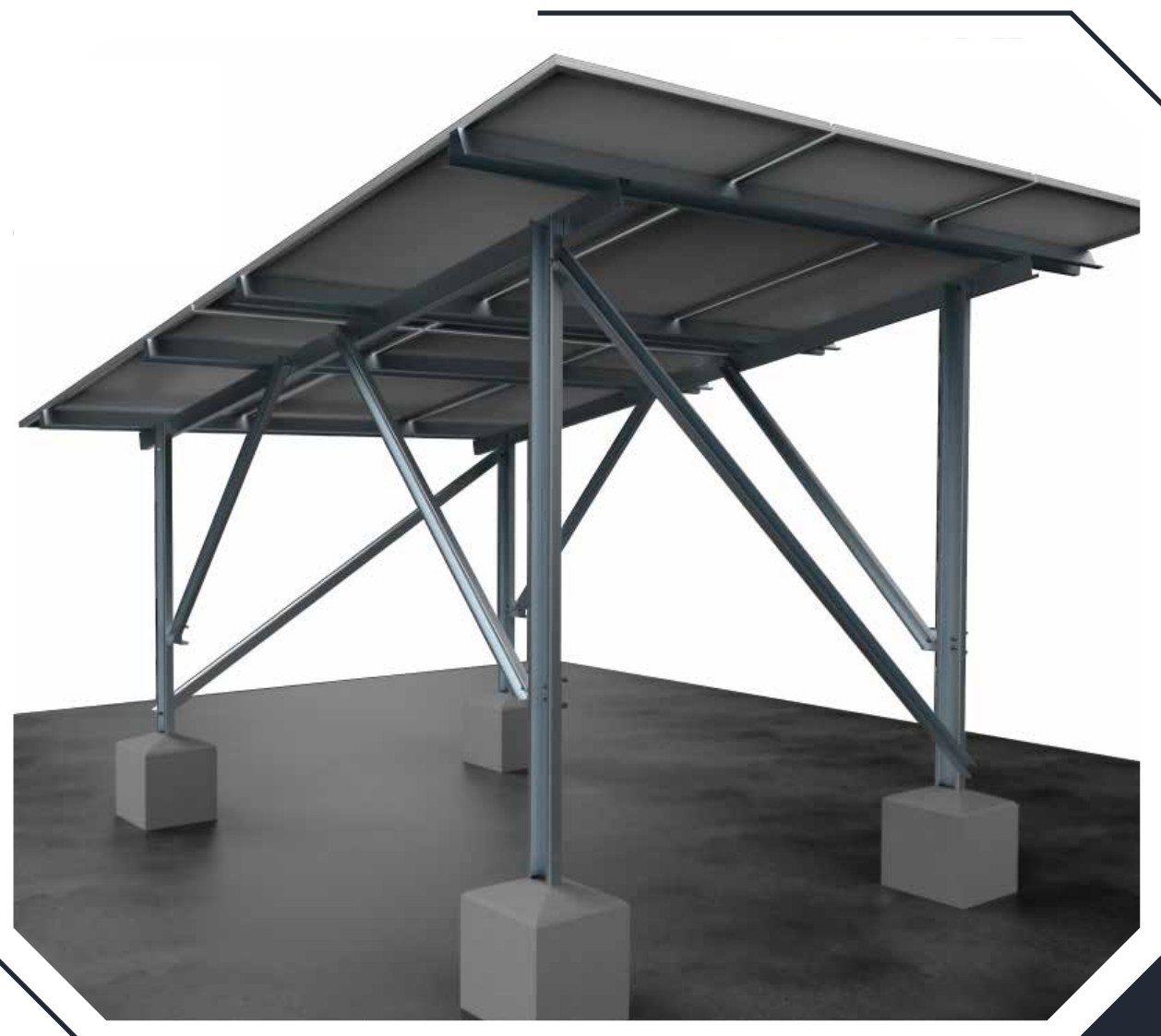
Aluminum Structure

Designed for flat concrete roof, optimizing tilt and stability.

Raw Material - Aluminum 6063-TS

Micron Layer - up to 1 Meter

Anchoring Type - Pedestal Casting, Anchor bolts, Bolting



Galvalume Structure

Designed for flat concrete roof, optimizing tilt and stability.

Raw Material - Galvalume, Aluminium & Zinc Coating

Micron Layer - 150 GSM.

Anchoring Type - Self-Drilling Fasteners

Flat Roof System - Landscape

Designed for flat concrete roof, optimizing tilt and stability.

Raw Material - Magnelis, Aluminum 6063 - T6

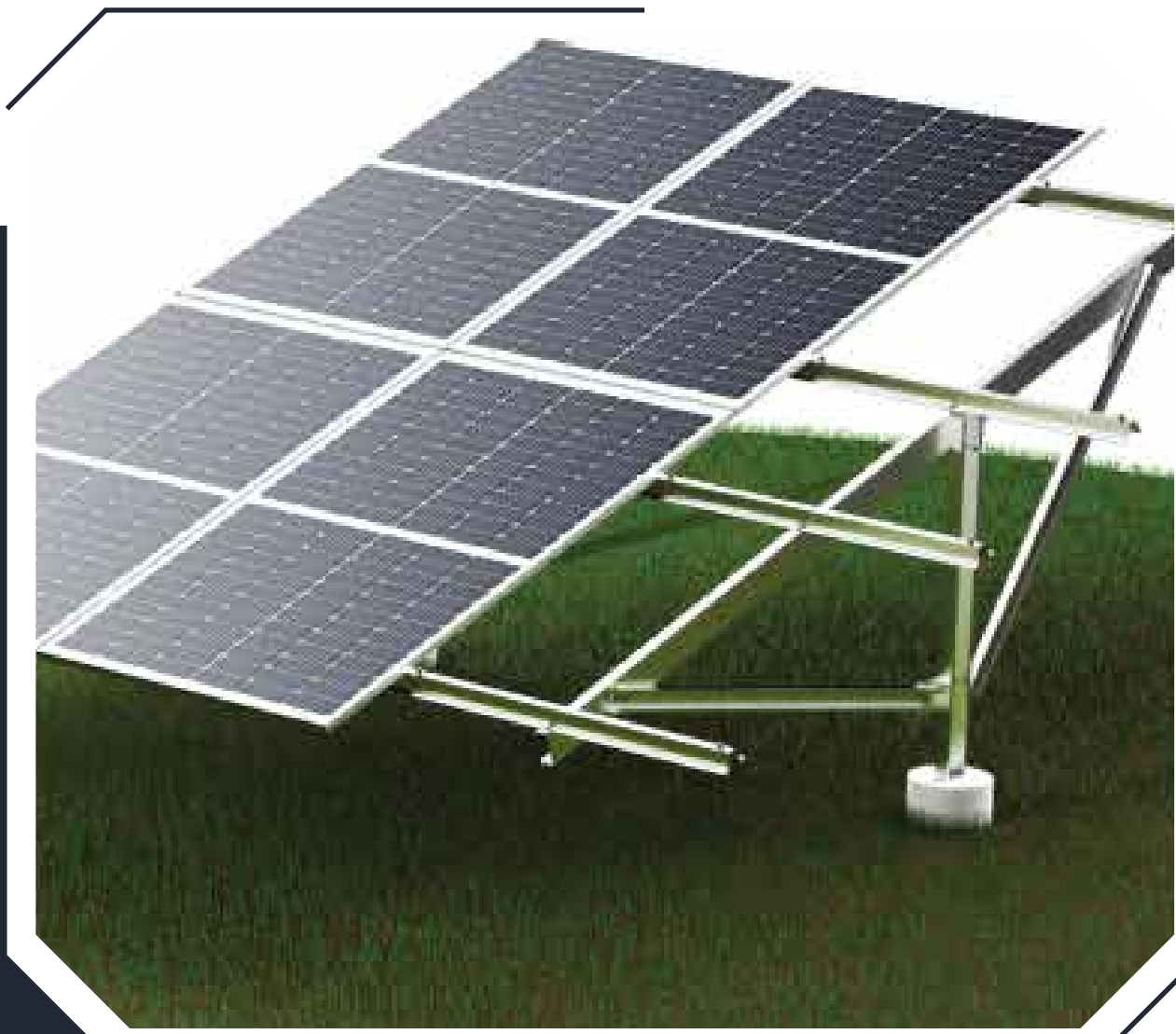
Anchoring Type - Non Penetrative Ballast
Loaded Structure



Ground Mount Structure (GMS)

Robust, Scalable solutions for open land Solar installations

Raw Material - Magnelis, HDG, Galvalume or Pre GI
Anchoring Type - Piling, Ramming
Compatible - Ground for multiple type of soil



Carport Structure (CS)

Integrating solar into carport design for shade and electricity

Raw Material - Magnelis, HDG, Galvalume
Anchoring Type - Piling, Plinth Foundation
Compatible - Ground



Tin Shed Structure (TS)

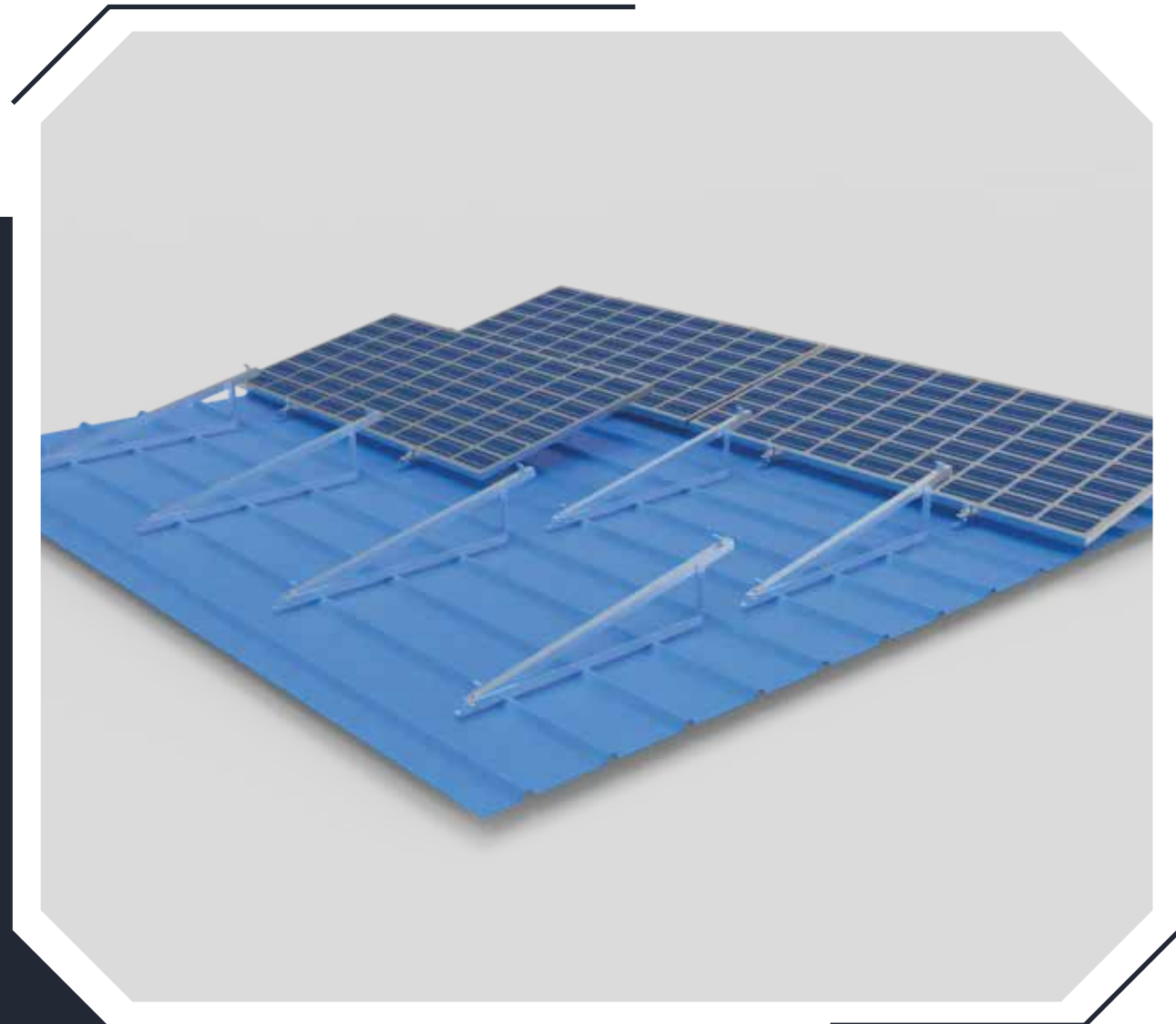
Customized Engineered for Solar on sloped surface

Elevated Structure

Economical Solution for Trapezoidal metal sheet roof

Raw Material - Aluminium 6063- T6

Wind Speed - 200km/hr



Flush Mount - Direct mount

Economical Solution for Trapezoidal metal sheet roof

Short Rail Structure - Portrait Mode

Economical Solution for Trapezoidal metal sheet roof

Raw Material - Aluminium 6063- T6

Wind Speed - 200km/hr



Mini Rail Structure - Landscape Mode

Economical Solution for Trapezoidal metal sheet roof

Raw Material - Aluminum 6063 - T6

Wind Speed - 200km/hr

Anchoring Type - Self-Drilling Screw, Blind Rivets, Adhesive



Seam Clamp Structure - Landscape Mode

Economical Solution for Seam Roof

Raw Material - Aluminum 6063 - T6

Anchoring Type - Non Penetrative, Bolting, Grub Screw

Magnelis Long Rail Structure - Landscape or Portrait

Economical Solution for Trapezoidal metal sheet roof

Raw Material - Magnelis, Aluminum 6063 - T6

Wind Speed - 200km/hr

Anchoring Type - Self-Drilling Screw, Blind Rivets, Adhesive

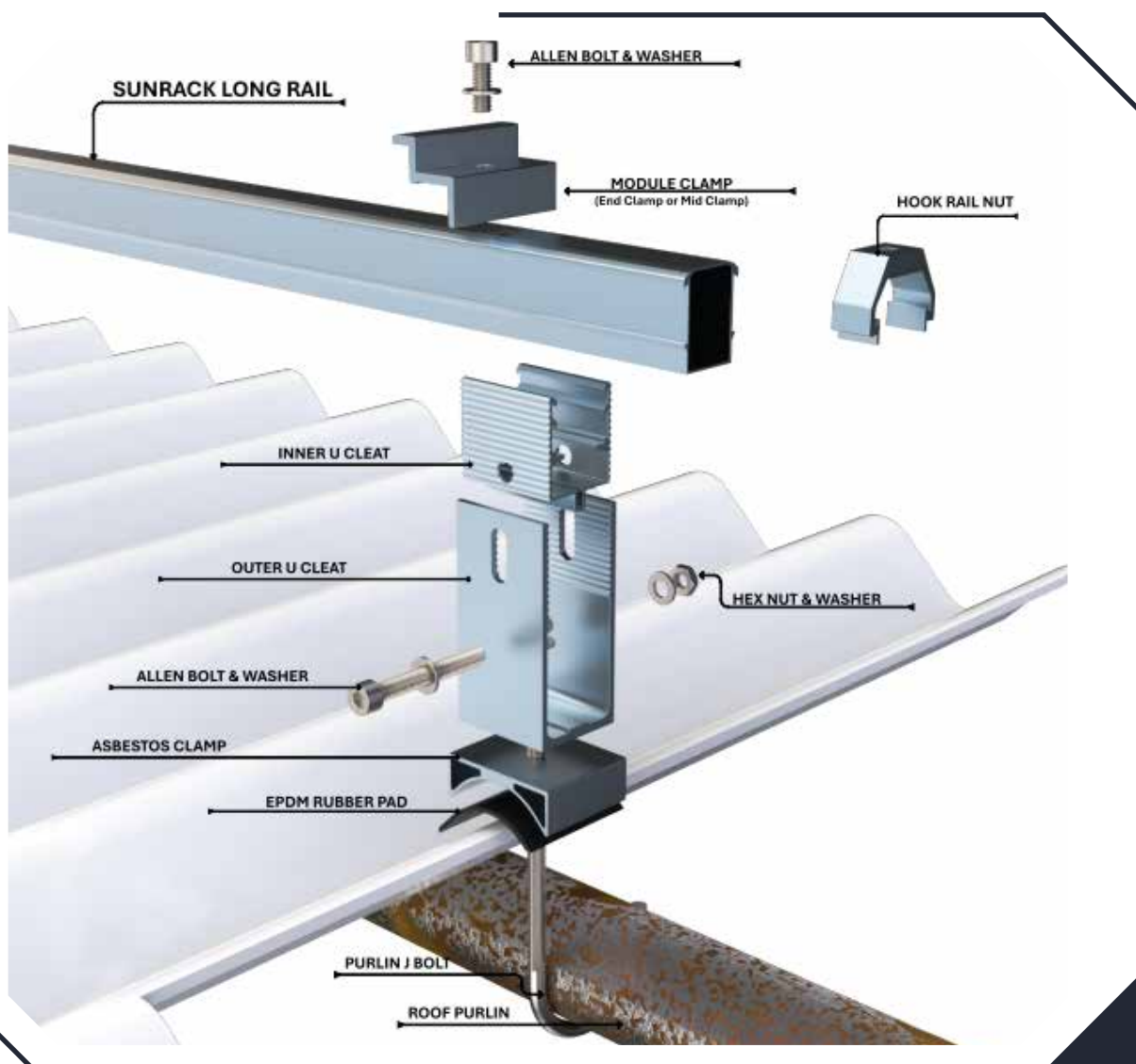
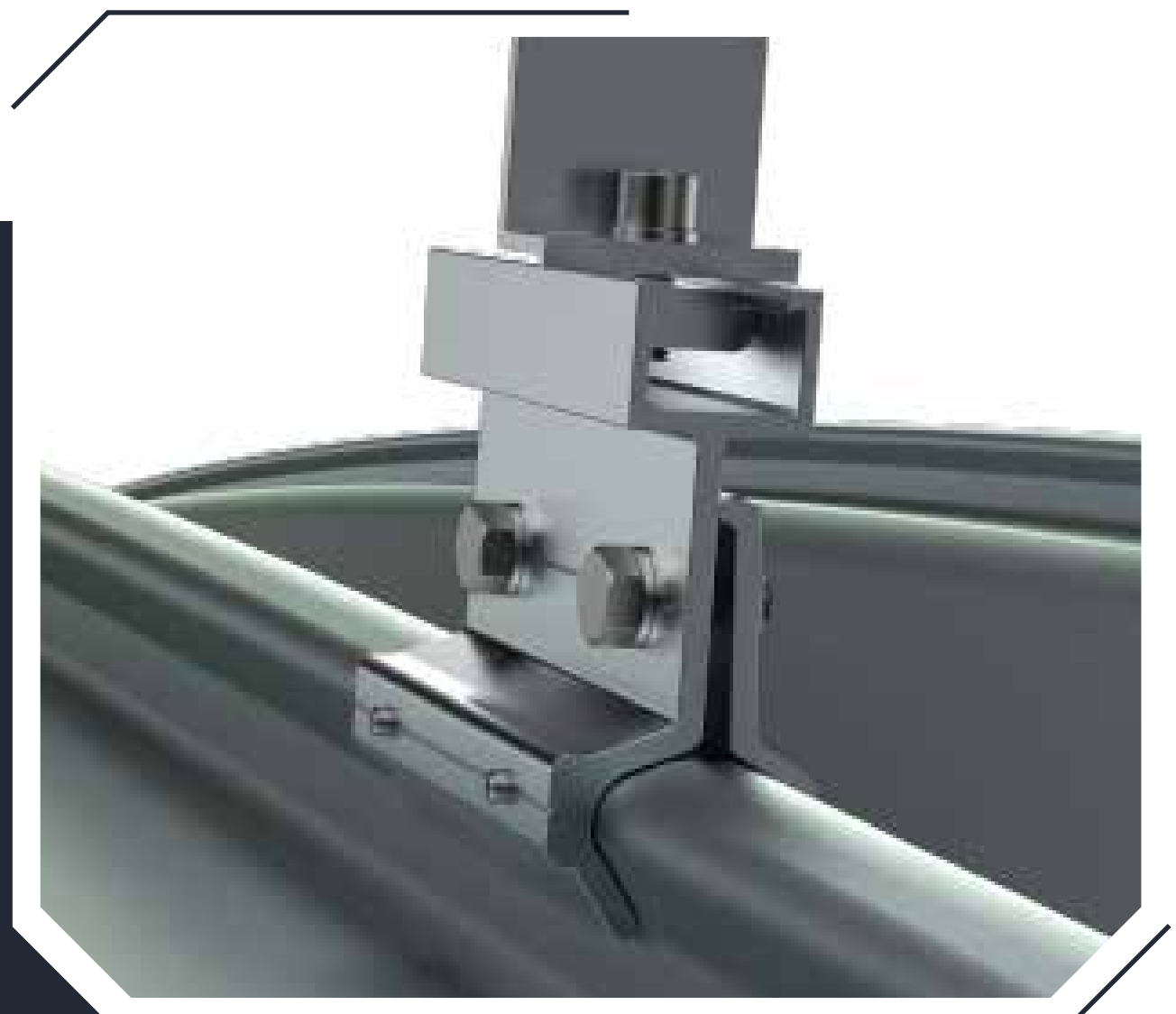


Proflex Seam Clamp - Landscape Mode

Economical Solution for Curved metal sheet roof

Raw Material - Magnelis, Aluminum 6063 - T6

Anchoring Type - Non Penetrative, Bolting, Grub Screw



U Cleat X Long Rail - Landscape or Portrait

Economical Solution for Asbestos roof

Raw Material - Aluminum 6063 - T6

Anchoring Type - Bolting

Mounting Structure Accessories



SS Nut Bolts

Corrosion resistance, strength, and durability

Raw Material - Stainless steel



GI Nut Bolts

Corrosion resistance, strength, and durability

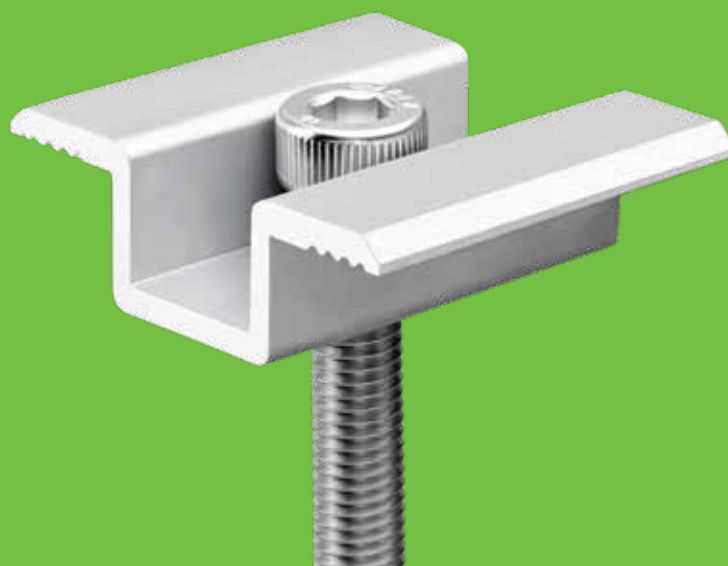
Raw Material - Pre-Galvanized Iron coated with zinc



End Clamp

Raw Material - GI and Aluminum

Section - 30 to 35 MM



Mid Clamp

Raw Material - GI and Aluminum

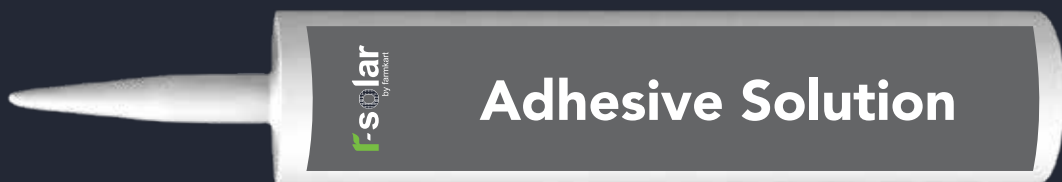
Section - 30 to 35 MM



SS Fastener

Corrosion resistance, strength, and durability

Raw Material - Stainless steel



Adhesive Solution

Chemical Composition solutions which is special for Tin Shed, Eliminates Leak Risk

Mounting Structure Additional Accessories

Walkway System

Anti Slip Access for Maintenance on rooftop solar systems free from Corrosion Resistance

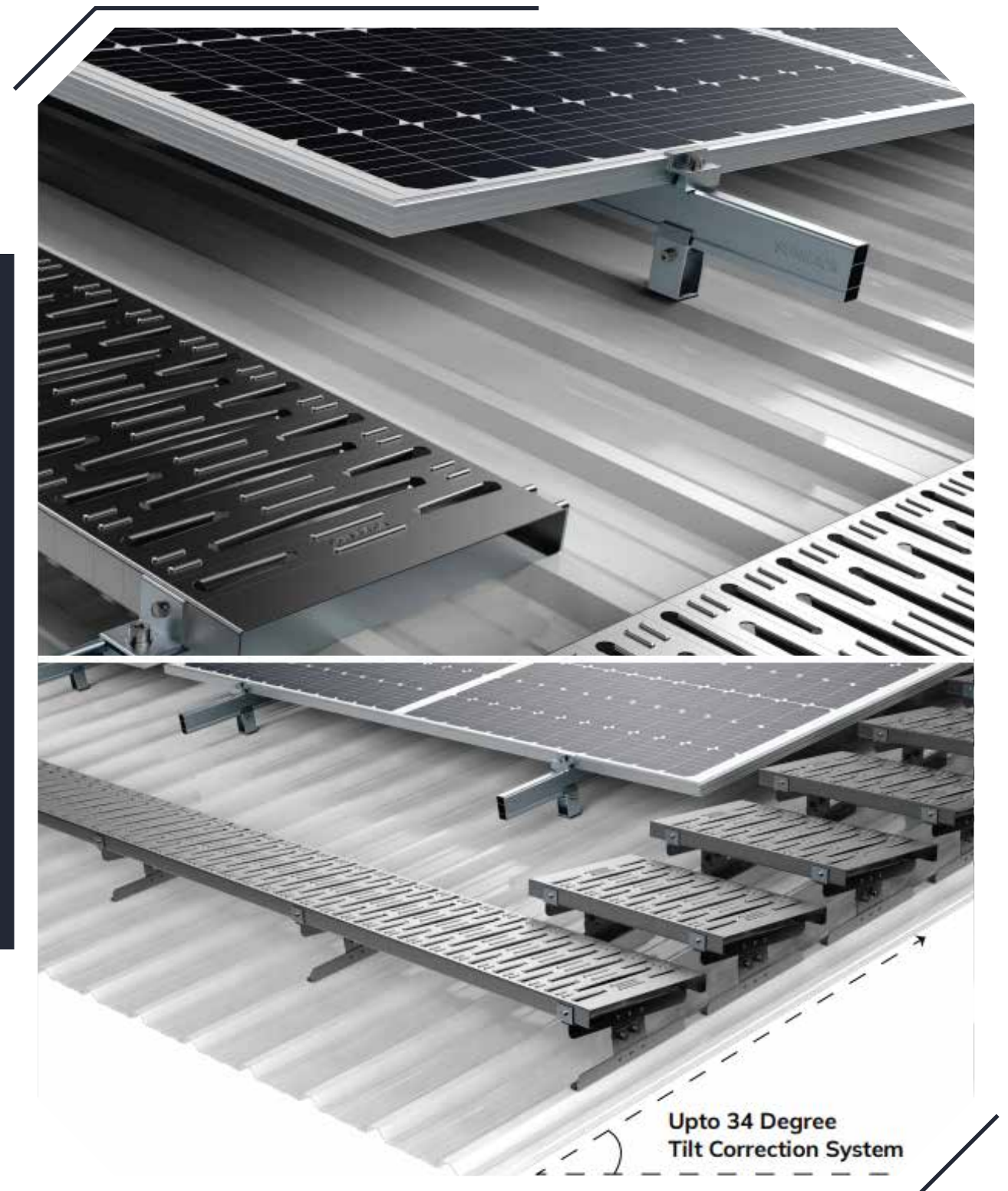
Magnelis Walkway

Light weight and strong

Anchoring Type - Blind Rivets & Self-drilling screws.

Compatible Roof Profile - Trapezoidal & Standing Seam Metal Roof.

Designed Dead Load - 200 kg/rm.



Aluminum Walkway

Light weight and strong

Anchoring Type - Blind Rivets & Self-drilling screws.

Compatible Roof Profile - Trapezoidal & Standing Seam Metal Roof.

Designed Dead Load - 150 kg/rm.

Mounting Structure Additional Accessories

Safety Guard System

Fall protection barriers enhance safety around rooftop edges
free form Corrosion Resistance

Magnelis Hand Rail

- Raw Material - Magnelis
- Compatible Roof Profile - Trapezoidal & Standing Seam Metal Roof.
- Anchoring Type - SDS (Self Drilling Screw), Riveting.
- System Height - Up to 1200mm Height.



Aluminum Hand Rail

- Raw Material - Alumium
- Compatible Roof Profile - Trapezoidal & Standing Seam Metal Roof.
- Anchoring Type - SDS (Self Drilling Screw), Riveting.
- System Height - Up to 1200mm Height.

Trust Us to Energize Better

Leaders in Solar PV Module manufacturing, offering high-performance solutions with advanced AI technology.

Module: Bi-Facial Module with Dual Glass

- In-House Quality Checks
- PID Resistant
- Anti Reflective Coated Glass
- High Performance under low light conditions

Module Type	: DCR NDCR
Panel Wattage	: 550 Wp to 620 Wp
Cell	: 144 Half Cut Cell
Cell Type	: M10R and G12R
Module Weight	: Approx 28 kg to 33 kg
Liner Performance	
Warranty after 30 Year	: Approx : 85%
Frame Type	: Anodized Aluminum Alloy



BIS
Certified



Solar Inverter

Converter for DC power to AC power, Best compatible with new technology modules can track on the Mobile Application.

ON Grid Inverter

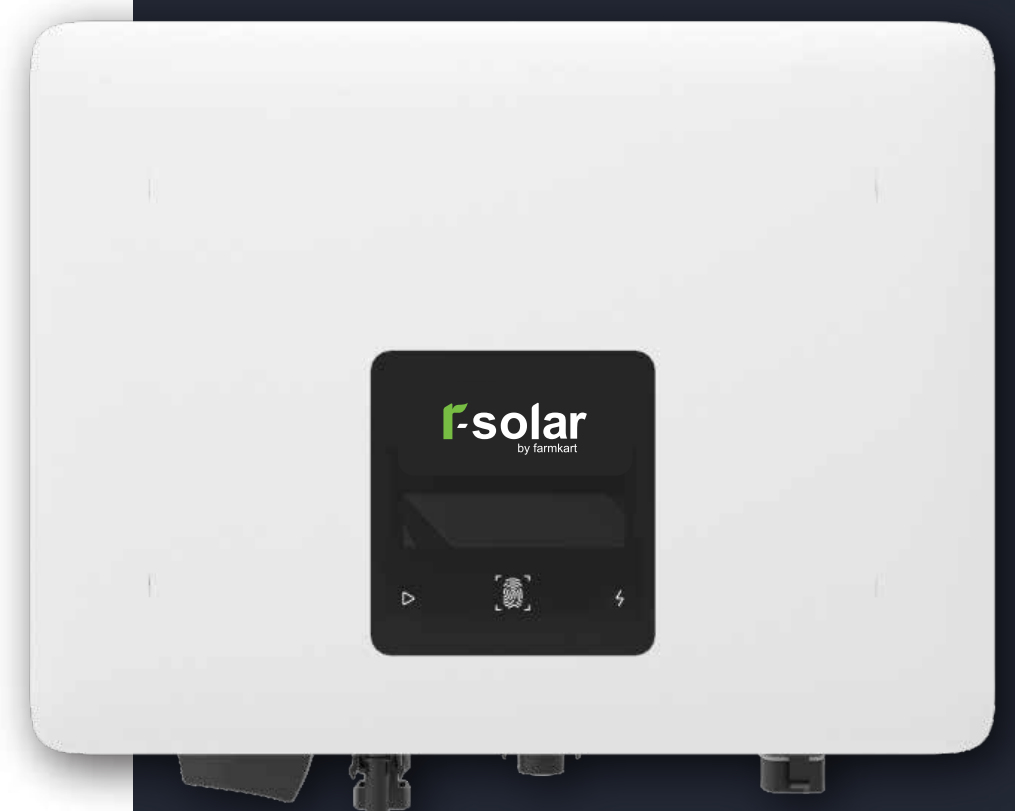
Single Phase Inverter

AC/DC built in Type - II Surge Protection and I - V Curve Diagnosis supported

Inverter Model - 3 kW to 6 kW

Inverter Type - String Single Phase

MPPT Type - Single



Three Phase Inverter

with PV string monitoring system

Inverter Model - 5 kW to 136 kW, 320 kW up to 350 kW

Inverter Type - String Three Phase

MPPT Type - Dual, Triple and Quad



ON Grid Inverter

Single Phase Micro Inverter

Better performance in shading conditions with
Panel-level monitoring

Inverter Model - 600 W to 2400 W

Inverter Type - Micro

MPPT Type - 2 and 4



Hybrid Inverter

Harness the power of the sun day & night with the ground-breaking range of hybrid inverters with high-voltage batteries.

Inverter Model - 5 kW to 30 kW

Inverter Type - String Three Phase

MPPT Type - Triple

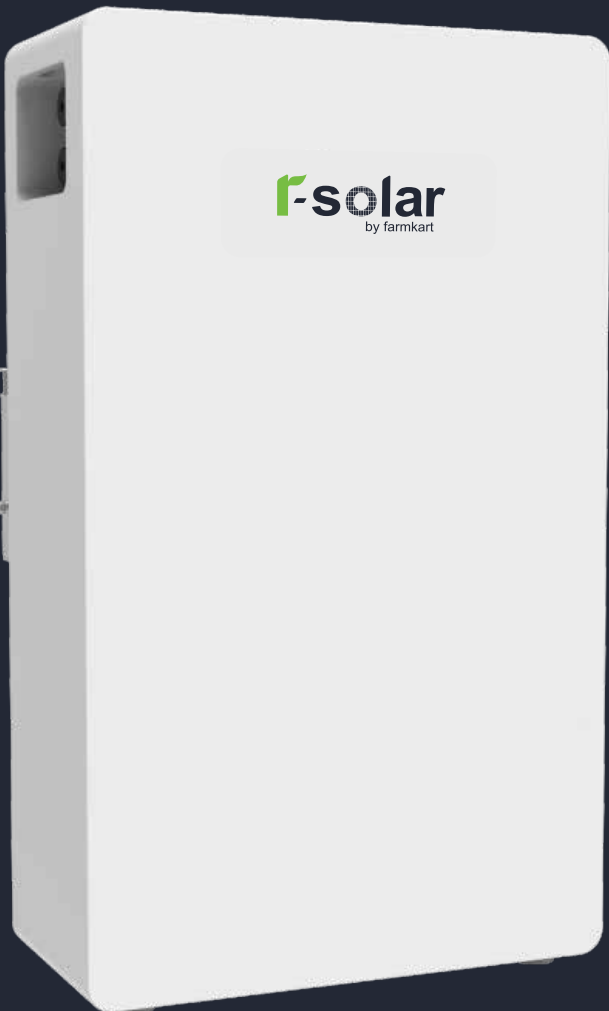
Battery Type - LEP (LiFePO

Nominal Energy - 5.76khw



Storage System HV

- DOD - 90%
- Battery Type - LFP (LiFePO4)
- Nominal Energy - 5.76 kWh
- MPPT Type - Triple
- Battery - Lithium-Ion Battery



AIO Inverter

Next generation energy storage system solution with inbuilt inverter/charger

- Inverter Model - 3 kW to 10 kW
- DOD - 95%
- MPPT Type - Triple
- Battery Type - LEP (LiFePO)
- Nominal Energy - 10.24 khw
- Cycle Life - 6000



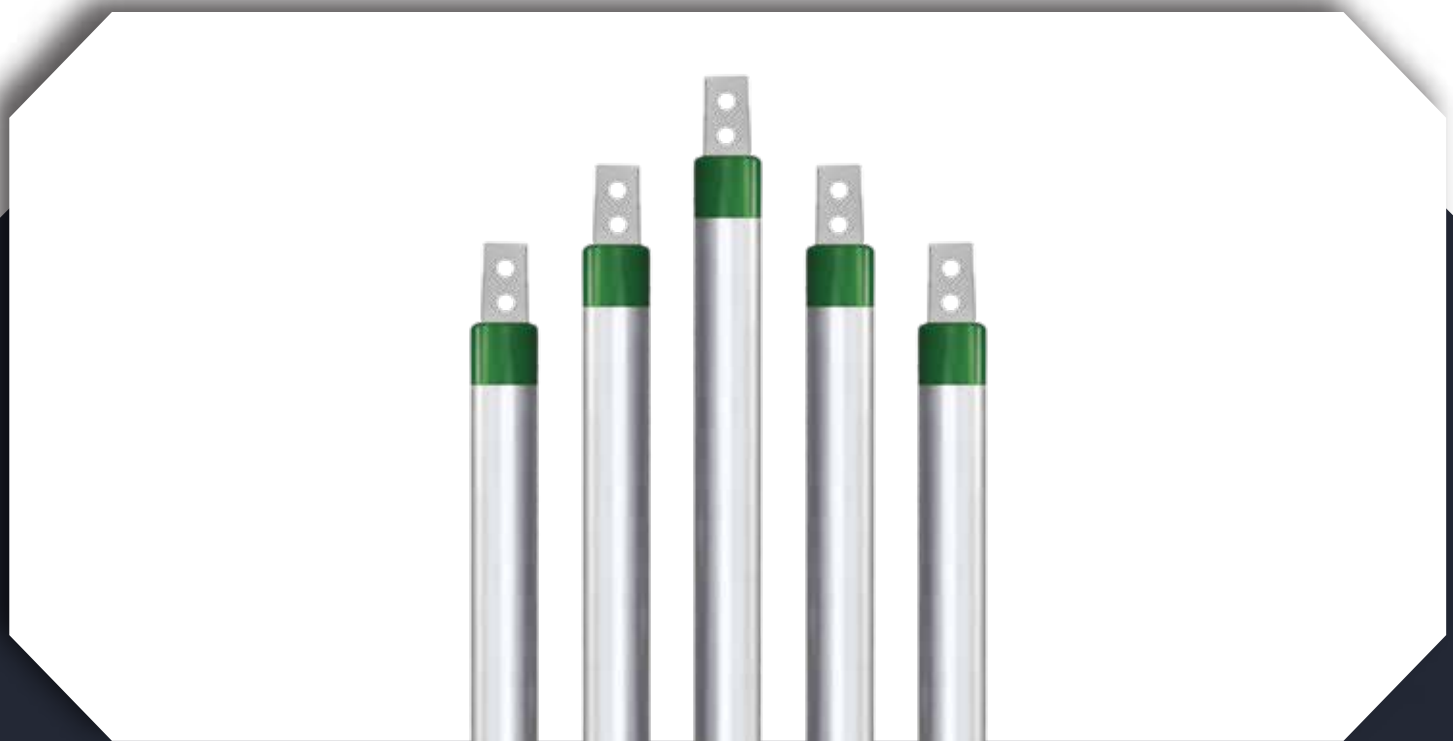
6.1 Earthing Solution

To provide a safe discharge parth for short circuit and lightning strikes.
Tested and Verified from standards practices
Suitable for Soil Condition with low pH value



Copper Bonded Solid Rod

Material - Copper coated rod as per standard
Coating Make - Copper 100 to 250 Micron
Diameter - 17.2MM X 1MTR
QTY - 3



Galvanized Iron (GI) Rod

Material - Galvanized coated rod
Coating Make - Hot Dip Galvanized
Diameter - 17.2 MM to 48 MM X 2 MTR
(Based on Solar Capacity)
QTY - 3 or 4 (Based on Solar Capacity)

Copper Galvanized Iron (GI) Rod

Material - Copper Coated Electrode
Coating Make - Copper 100 to 250 micron
Diameter - 17.2 MM to 48 MM X 2 MTR (Based on Solar Capacity)
QTY - 3 or 4 (Based on Solar Capacity)



6.2 Lightning Arrester Solution

Conventional Type LA

Protect a solar power plant from lightning strikes.

- Material - Copper Coated Electrode
- Coating Make - Copper 100 to 250 micron
- Diameter - 17.2 MM X 1 MTR
- QTY - 1



Early Streamer Emission (ESE) Type LA

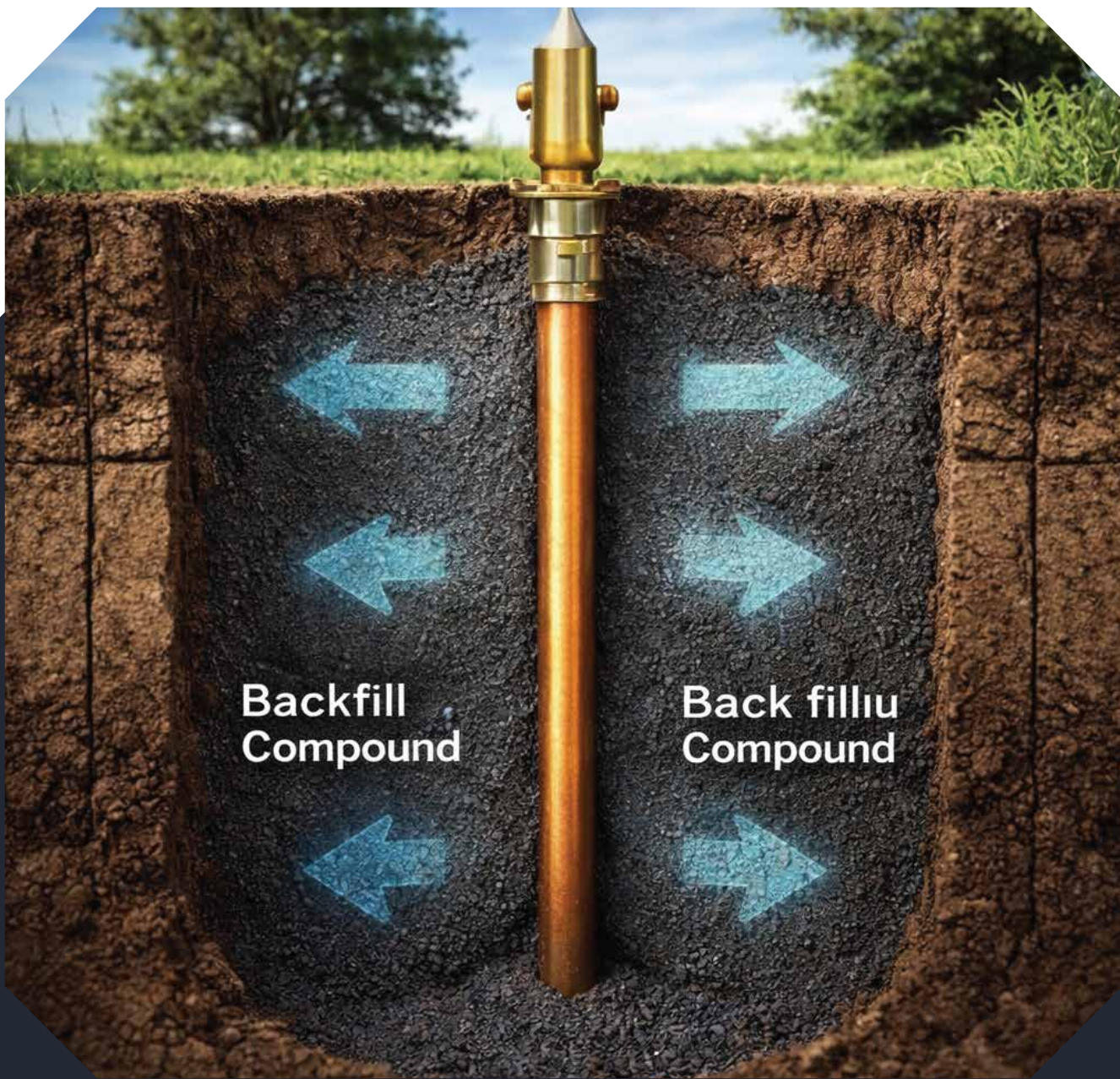
- Material - Copper Coated Electrode
- Coating Make - Stainless Steel or Copper
- Diameter - 17.2 MM X 1 MTR
- Packing Contain - ESE Head, Pole, Mounting Base and SS Bolts
- QTY - 1



6.3 Backfill Compound

Specially formulated conductive material used in earth pits

Starts from 5kg to 15 kg depends upon the kW capacity



6.4 Earthing Strip

It safely carries fault current and lightning current to the ground

Copper Earthing Strip

Thickness - 25 x 3 mm to 100 x 10 mm



G.I Earthing Strip with 86 Microns

Thickness - 25 x 3 mm to 100 x 12 mm



6.5 Earth Pit Cover

It protects the earth electrode connection and allows inspection & maintenance.

Material - FRP/HDPE/CC

Shape - Round/Conical

Load Bearing Capacity - 3000 Kgs



6.6 Distribution Boxes

Safely collect, protect, and distribute electrical power between panels, inverters, and the main supply.

DCDB (DC Distribution Box) - Customized design based on kW Capacity

MCB - Havelles

Fuse - Elmex

Volt - 600 V to 1200 V (based on solar capacity)

SPD (Surge Protection Device) - Havelles

MCCB - Havelles

DC String IN and OUT - based on Inverter Design



ACDB (AC Distribution Box) - Customized design based on kW Capacity

MCB - Schendier Electrics

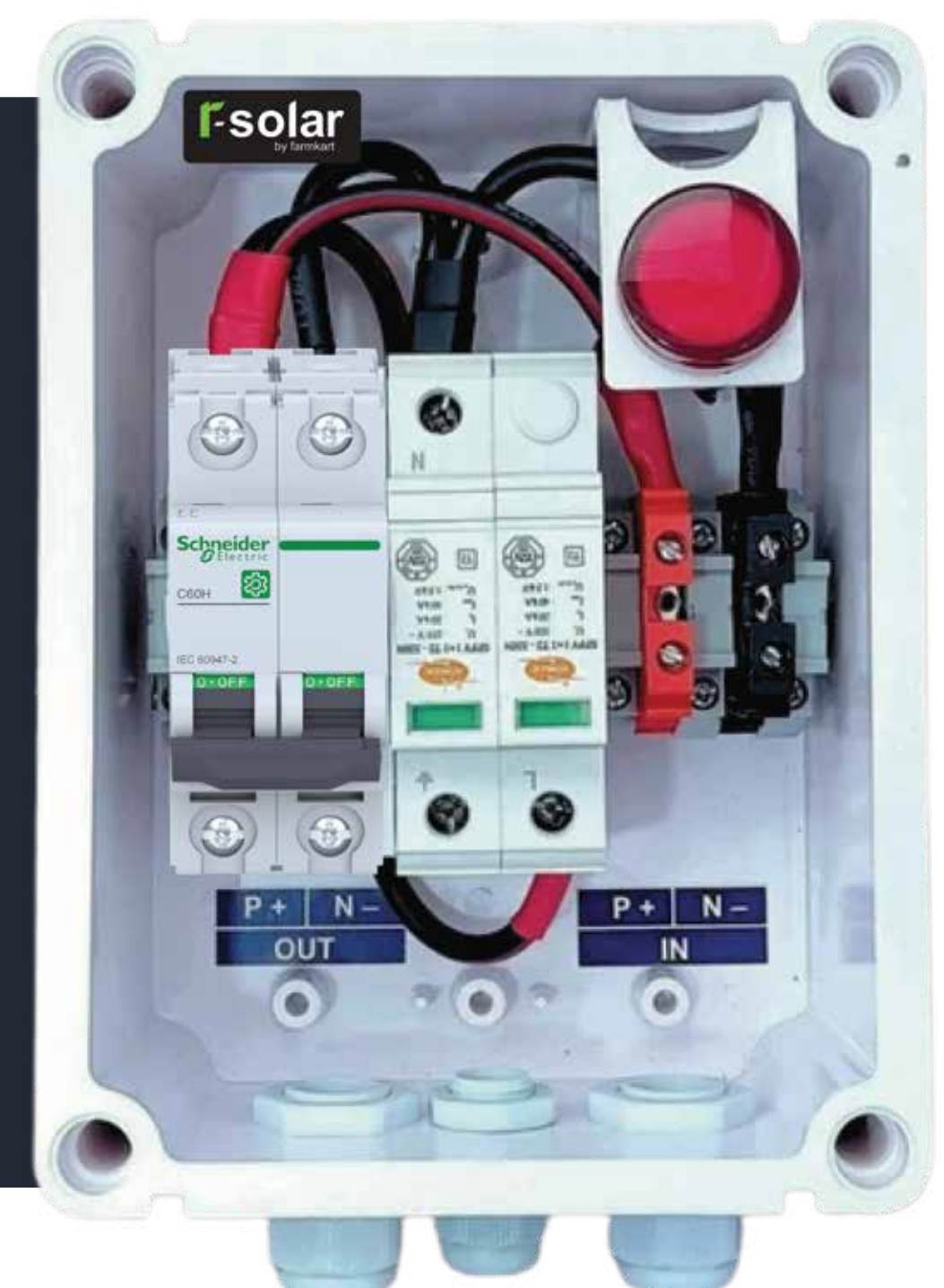
MCB Amp - 32A, 64 A (based on solar capacity)

MCB Curve - D Curve

Pole - 2 Pole or 4 Pole (based on solar capacity)

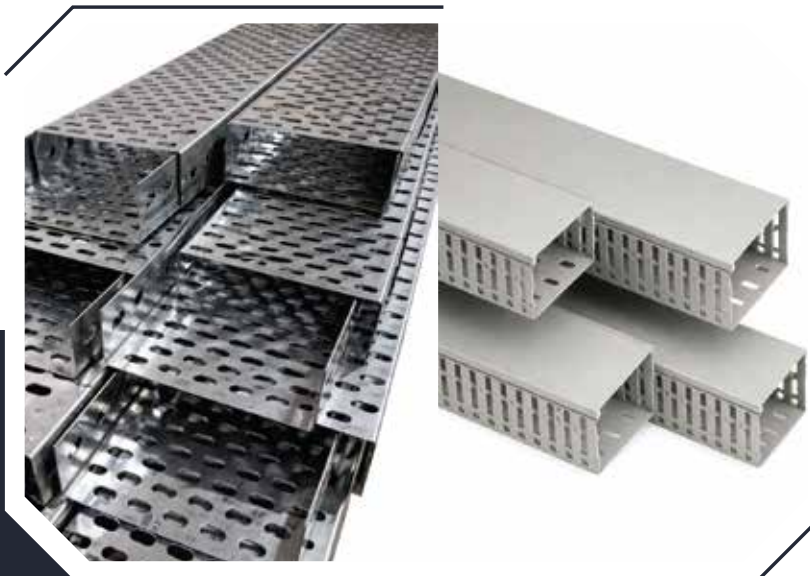
SPD (Surge Protection Device) - Havelles

MCCB - Schendier Electrics



6.7 PVC Accessories

Cable Tray
PVC and GI



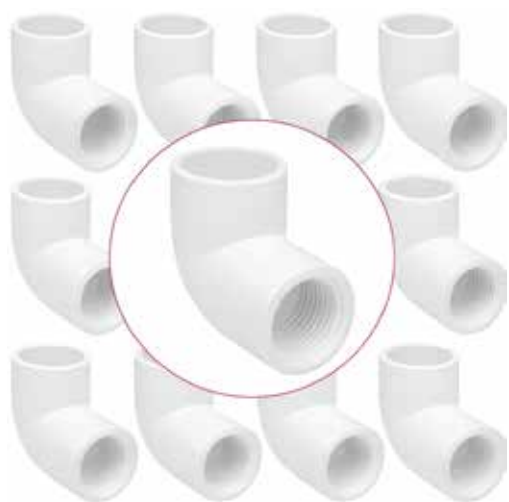
Flexible Pipe



PVC Conduit Pipe - 25MM HMS



PVC Elbow - 25MM



PVC Cable Tie - UV Protected



PVC Tee



GI Cable Tie - Corrosion resistance

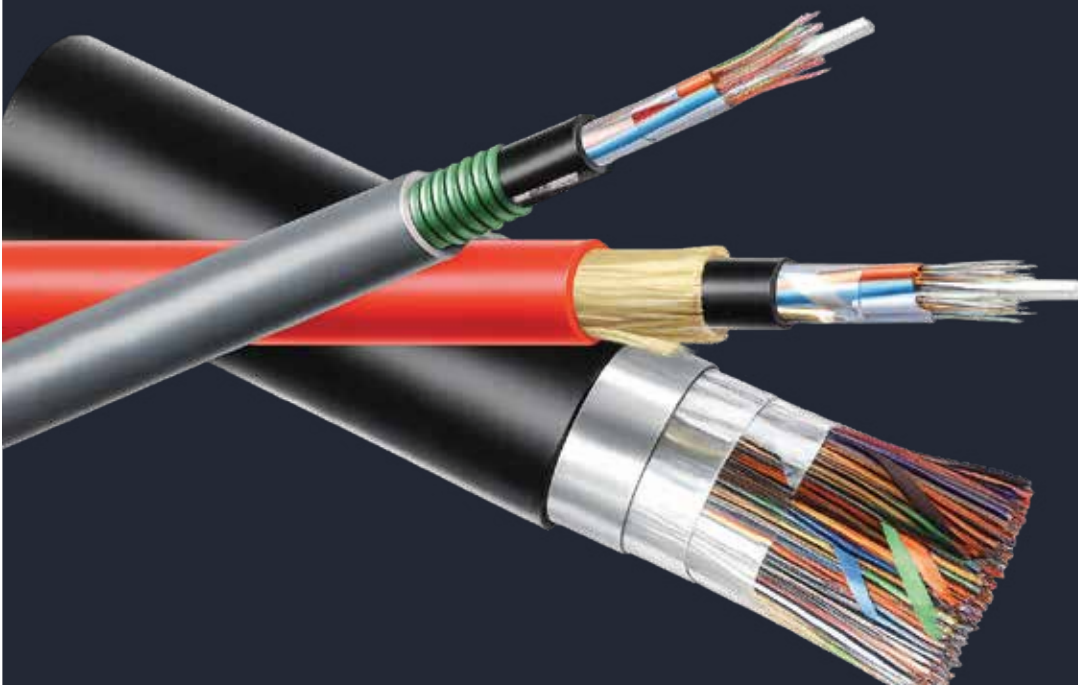


6.8 Solar Cables



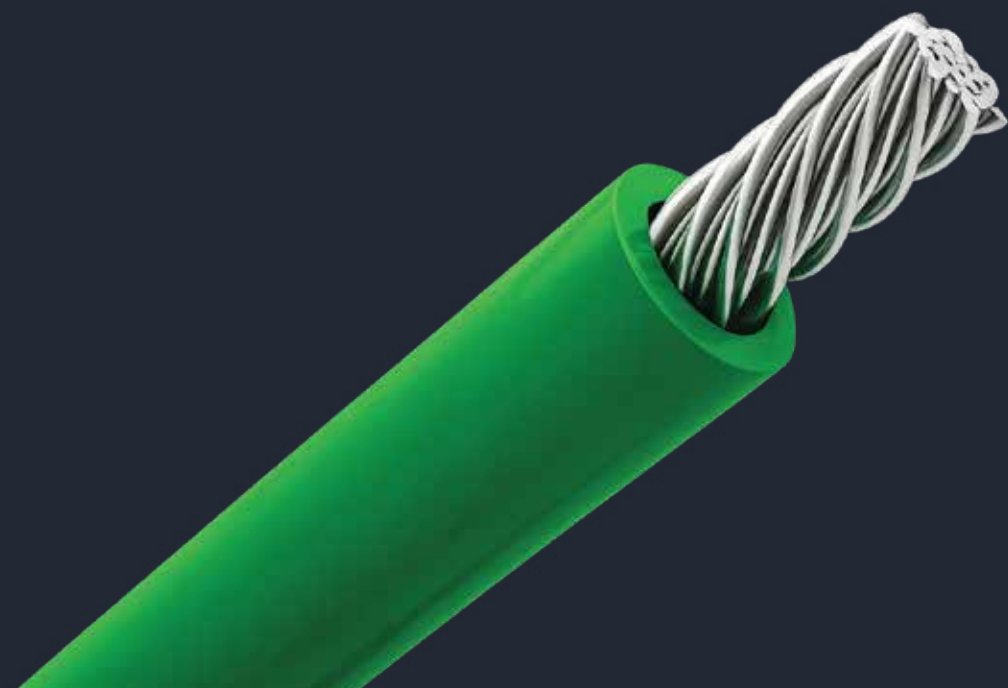
DC Cable

Brand - LAPP Group
SQMM - 4 and 6 (based on kW Capacity)
Rated Voltage - 1000V / 1500V DC rated
Color - Red (Positive) and Black (Negative)



AC Cable

Brand - RR / Polycab
Make - Aluminium or Copper
SQMM - 2.5 up to 300
Cable Core - 3 up to 4



LA Cable

Brand - Waacab
Make - Aluminium
SQMM - 16
Core - Single



Earthing Wire

Brand - Polycab
Make - Copper
SQMM - 2.5
Core - Single

6.9 Connectors



MC4 Connectors - Panel to Panel
Make - Staubli
IP Rated - IP67 / IP68 (Waterproof)
Pair - Male & Female



DC Branch / Y Connectors -
Parallel / String Extension

6.10 Lugs

Type - Insulated
Make - Aluminium / Copper
Usable for - DC Cable, AC Cable,
LA Cable, Earthing Wire



6.11 Solar Electrical Equipment - Additional with Service

Protection Relay

Under voltage, Over voltage, Under Frequency, Over Frequency, Asymmetry, Phase Failure and Phase sequence monitoring system with Auto power ON delay, trip time delay and delay on release

Operating Range - 280-520V AC (L-L) / 160-300V AC (L-N)

Frequency Range - 45-65 Hz



Auxiliary Contact

Add-on electrical module used with MCB, MCCB, or Contactors to provide status feedback (ON/OFF/TRIP)

Hooter

Alert operators during faults such as overload, short circuit, breaker trip, or grid failure.

AC Rated Voltage - 220 - 230V

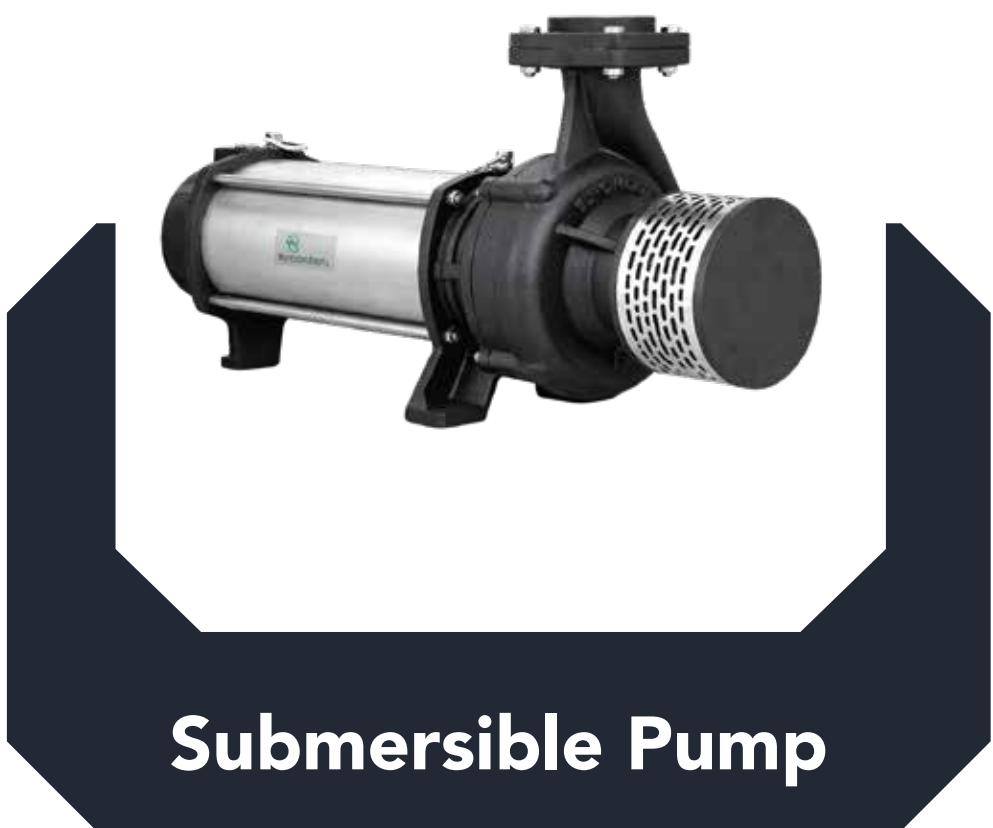
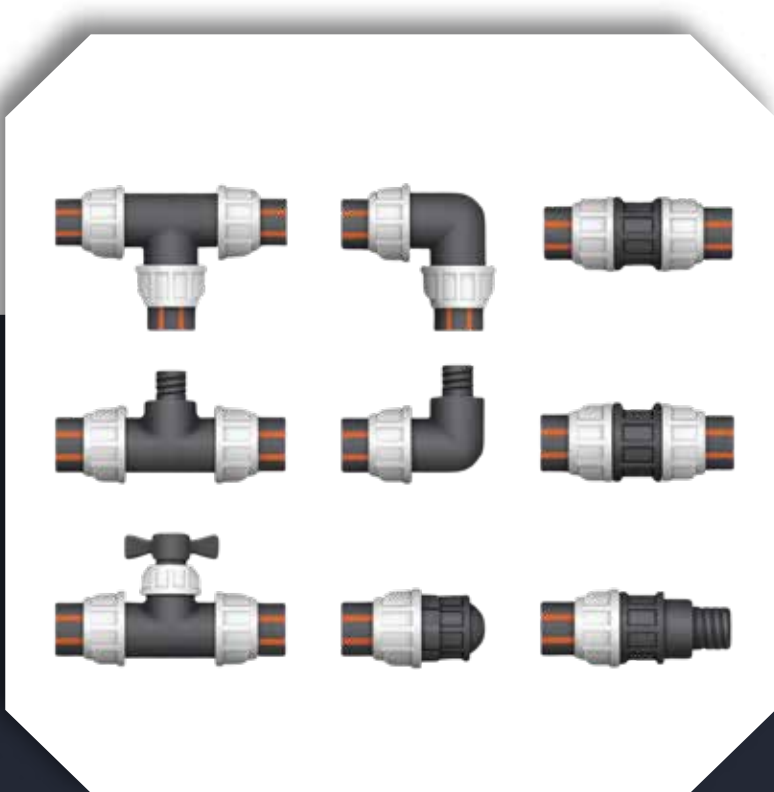
Sound Level - 80 - 110 dB



Semi - Automated Sprinkler Cleaning System
Hand - Operated Manual Valve spray nozzle connected to water hose for controlled panel cleaning.



Automated Sprinkler Cleaning System



Drainage System Solution

Solar Panel Drain Clips

Catches water running off when you clean the panels.



PVC Drain System

Attach to the edge of solar panels to guide water downward in a controlled way

