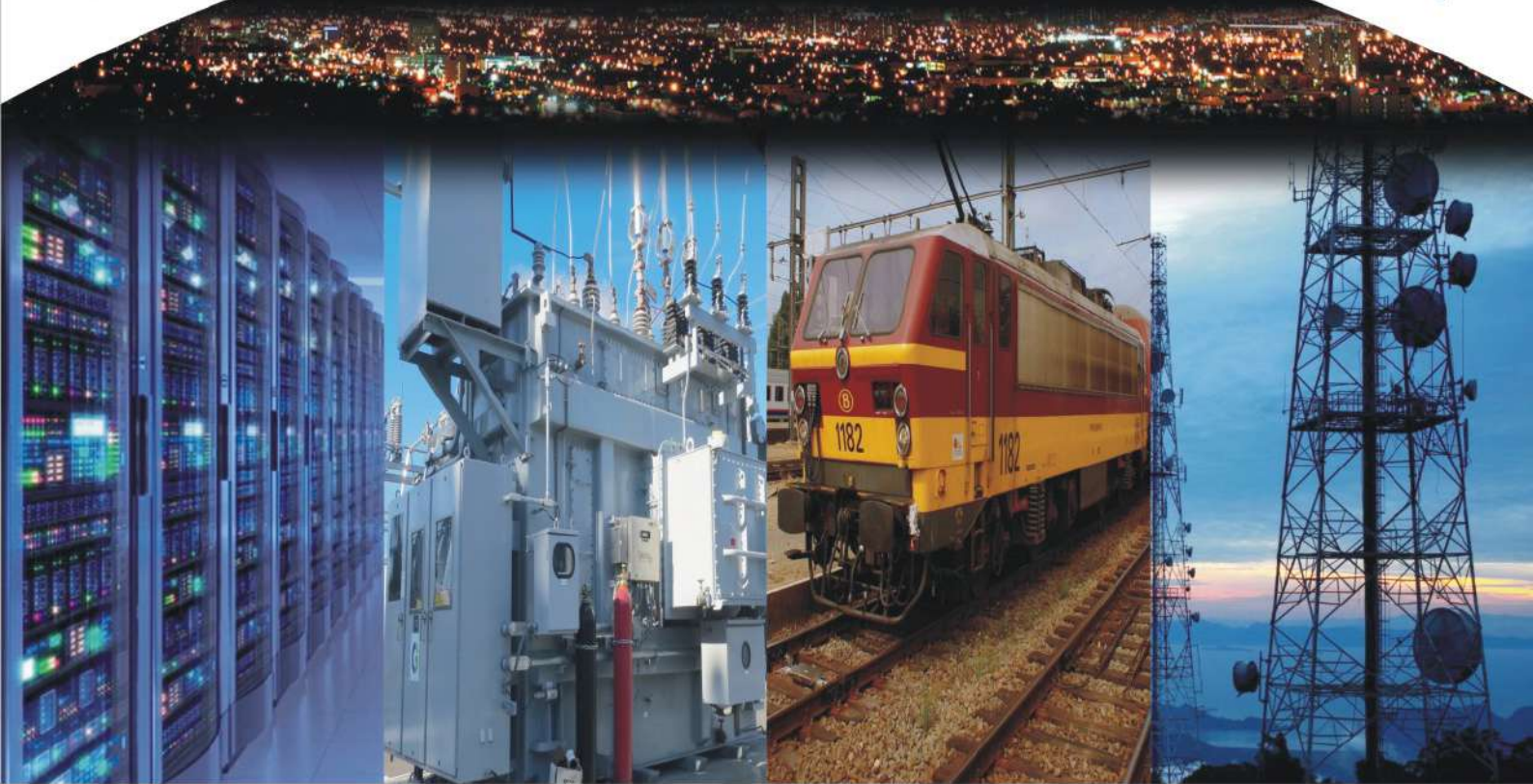


SAFETY FIRST



Earthing & Lightning Protection System



**Electrical Surveyer, Designer, Manufacturer,
Exporter & Solution Provider**



ABOUT US

Over the past decade and continue in present, " Ashima Electrotech (P) Ltd. (AEPL) has emerged as a leading manufacturer and solution provider in Electrical Protection field, our custom built products and solutions are pride of company. Customers from solar to electrical distributions and Banking to Telecom are the Backbone to the company's success and we are thankful to our esteemed customers. Always keeping the quality and service on first priority our customers always get "VALUE FOR MONEY". The Growing list of new customer along with repeat orders from existing customers always keeps us on move. Certifications from CPRI, ERDA, NSIC and NABL accredited labs have proved the Quality of our products. Continuous development is a part of company policy and everybody in AEPL is committed to achieve their goal.

We serve almost all the sectors in Electrical safety :-



Domestic or Residential

- Pipe Earthing & Copper clad rods. ➤ HDPE Pit Covers.
- Surge Protection Devices.



Industrial

- High current with stand capacity Earth Electrode ____ >50KA.
- Industrial & Semi Conductor Fuses. ➤ High End surge Protection Devices.
- Ground Resistance Monitors.



Health Care

- Pure Copper Earth Electrode to provide best contact resistance for sensitive Electromagnetic Equipments like MRI, Linear Accelerator, Cathlab.



Electricity Supply and Maintenance

- Our highly conductive Earth Enhancement Material and Earth Electrode is very useful for 33kv / 132kv / 400kv substations and high voltage / MVA Transformers



Railways and Banking Services

- UL Listed Copper Bonded Rods, Perforated Pipe Earthing and Earth Discharge Rods are as per RDSO Compliance and are widely used in signal Earthing applications. ACME Ground Rod and Premium Earth Enhancement Compound is Being used regularly by many Banks in India.



Airports and Data Center

- Copper Bonded Rods along with low resistivity Earth Enhancement Material
- Advance lightning Protection system.
- ACME low resistance Earthing solutions.

These are few.....

- We also serve some custom required areas as per customer needs.

We are Committed for Our work, Our supplied goods and Our services. _ _ _ _ _ For no time limits.

ACME - G.I. EARTH ELECTRODE - G.I. Pipe in G.I. Strip (acme - GIPS)

- GI strip is used as primary conductor inside the GI pipe.
- Availability of different size GI strips ensures the availability of plenty of models according to fault current requirement.
- Hot Dip Galvanization (HDG) of strips and pipe ensure the better anticorrosion resistance.

Description :-

Description	Length	Inner Size	Catalouge Code
ACME 50mm GI Pipe with GI strip Earth Electrode	2 Mtr.	25x3	A50G2532
ACME 50mm GI Pipe with GI strip Earth Electrode	2 Mtr.	32x5	A50G3252
ACME 50mm GI Pipe with GI strip Earth Electrode	3 Mtr.	25x3	A50G2533
ACME 80mm GI Pipe with GI strip Earth Electrode	3 Mtr.	25x3	A80G2533
ACME 80mm GI Pipe with GI strip Earth Electrode	3 Mtr.	32x6	A80G3253
ACME 80mm GI Pipe with GI strip Earth Electrode	3 Mtr.	50x6	A80G5063



*special & customize size can be requested

ACME - G.I. EARTH ELECTRODE - PIPE IN PIPE (acme - GIPP)

- Acme-GIPP Earth Electrodes ensure longer life to equipment and safety of humans.
- Acme-EEC is used to make Electrode surrounding moisture high and providing easy path to fault current.
- Circular path for fault current to spread in more uniformly in all directions.

Description :-

Description	Length	Inner Size	Catalouge Code
ACME 50mm GI Pipe in Pipe Earth Electrode	2 Mtr.	25 mm	AGP50252
ACME 50mm GI Pipe in Pipe Earth Electrode	3 Mtr.	25 mm	AGP50253
ACME 80mm GI Pipe in Pipe Earth Electrode	2 Mtr.	40 mm	AGP80402
ACME 80mm GI Pipe in Pipe Earth Electrode	3 Mtr.	40 mm	AGP80403

ACME - G.I.EARTH ELECTRODE - G.I. Pipe in Copper Strip (acme - GIPCS)

- 99.9% pure copper strips is used as primary conductor along with GI Pipe.
- Acme-GIPCS electrodes are used mainly for heavy fault current requirements.
- Pressure filled conductive & heat absorbent materials are used inside the electrode to sustain heavy fault current.

Description :-

Description	Length	Inner Size	Catalouge Code
ACME 50mm GI Pipe with copper strip	2 Mtr.	25x3	A50C2532
ACME 50mm GI Pipe with copper strip	2 Mtr.	32x5	A50C3252
ACME 50mm GI Pipe with copper strip	2 Mtr.	40x6	A50C4062
ACME 50mm GI Pipe with copper strip	3 Mtr.	25x3	A50C2533
ACME 50mm GI Pipe with copper strip	3 Mtr.	32x5	A50C3253



*special & customize size can be requested

Description :-

Description	Length	Inner Size	Catalouge Code
ACME 50mm GI Pipe with copper strip	3 Mtr.	40x6	A50C4063
ACME 80mm GI Pipe with copper strip	2 Mtr.	25x3	A80C2532
ACME 80mm GI Pipe with copper strip	3 Mtr.	25x3	A80C2533
ACME 80mm GI Pipe with copper strip	3 Mtr.	32x5	A80C3253
ACME 80mm GI Pipe with copper strip	3 Mtr.	50x6	A80C5063

ACME - Copper Bonded Ground Rod (acme - CBGR)

- Acme-CBGR made by molecularly bonding pure electrolytic copper into a low carbon high tensile steel core.
- The copper bonded grounding rods have characters of anti-corrosion and ductility, which is superior then common copper bonded steel rod and easy to install deeply.
- Made with low carbon steel core bonded 99.9% pure electrolytic copper.

Description :-

Description	Length	Inner Size	Catalouge Code
Copper Bonded Rod	1 Mtr.	-	ACBR101
Copper Bonded Rod	2 Mtr.	-	ACBR202
Copper Bonded Rod	3 Mtr.	-	ACBR403
Copper Bonded Rod	3 Mtr.	-	ACBR253



*special & customize size can be requested

EARTHING ACCESSORIES



A Clamp



U Bolt Type E



U Bolt Type E 2



U Bolt Type GUV



Earth Rod Clamp



Coupler

ACME - Earth Enhancement Backfill Compound (acme - EEC)

- Acme-EEC is developed to enhance the conductivity, it reduces the earthing resistance in all kind of soil (Rocky, Sandy and any Low Moisture Areas).
- The Characteristic of the earthing system is dependent on the nature of the soil. In an ideal earthing system, the earthing resistance must be kept as low as possible to provide safe way for fault current.
- Acme-EEC-Major element contains mainly: Ti, Na, Mg, Ca, C and so on. This is mixture of natural minerals which in non hazardous for human being.
- Applied to high earth resistivity rainy soil loss area.
- Corrosion free and average life span: 20-30 yrs.

Description :-

Compliance	IEC 62651-7
Certification	NABL, CE, ROHS
Colour	Dark Grey
PH Value	7-10
Electric Resistivity	Less than 0.12Ωm
Conductivity Rate	High
Water Solubility	30% / 40%
Bag Size	10kg / 20kg / 25kg
Moisture Content at 105°C(%)	10.05%
Sulphur Content	Less than 2%



*Datasheet available on request

ACME - BENTONITE - EARTH BACKFILL

- Bentonite is a natural mineral extracted from mines. It is a clay and Sodium activated montmorillonite. when this clay is mixed with water swells many time its dry volume. This clay has the ability to retain moisture for a long duration. It also absorb the moisture from surrounding soil and thus keeps the earthing system more effective.



*Datasheet available on request

ACME - Conductive Cement

- Acme conductive cement is a powerful low resistivity grounding material, It is prepared to provide conductive property along with settling properties of cement. The ratio of hardening material with that of conductive material like Graphite or carbon, plays a vital role in defining the properties of conductive cement. A corrosion Inhibitor material is also mixed to prevent the corrosion.

Features :-

- Positive low contact resistance.
- No hazardous chemicals.
- Does not leach or wash away.
- Corrosion Inhibitor properties.
- No expansion or shrinkage.



*Datasheet available on request

ACME - PVC Earthing Chamber Cover (acme - PVCECC)

Earth Pit Cover is manufactured with the use of quality polypropylene material which is reliable to use. They are used in order to secure Protection for all earthing terminations. They ensure easy access for routine testing of electrical earths. They provide secure and user friendly accesses.

Dimensions (approx.)	Features
Top - 265 mm	Construction material PVC for extra durability.
Bottom - 300 mm	Factory- built long holes for accessing pipes strip.
Height - 265 mm	Resistant materials, assuring long use-life.
Thickness - 5.5 mm	Light weight.
	Maximum safe working load.
	Easy to install



ACME - MS Pit Cover (acme)

MS Earth Pit Cover is manufactured with the use of quality Steel sheet. They are Used in order to secure Protection for all earthing terminations.They are available in different MS sheel thickness (2mm, 4mm, 6mm,). They ensure easy access to routine testing of the electrical earth. They provide secure and user-friendly accessess.

Features	Size	Thickness
Light Weight	300x300	2 mm
Maximum safe working load	450x450	4 mm
Easy to install	600x600	6 mm



ACME - Cast Iron Pit Cover (acme)

Cast Iron Pit Covers are heavy duty pit covers. They are mainly used where movement of persons is more. These pit covers are made by dye casting techniques. These are available in various sizes.



ACME - RCC Pit Cover (acme)

These Pit covers are mainly used where a massonary work is not tough to do. At remote sites of Petrol Pumps and Substations where empty land is not a problem for brick work. Various sizes are available as per requirement.

Sizes available in :-
300x300
450x450
600x600



⚠️ ACME - TELESCOPIC EARTH DISCHARGE ROD (acme - TEDR)

ACME - Highly insulated FRP Telescopic Earth Discharge Rod manufactured In automatic pultrusion plant having strong electrical & mechanical strength.

⚠️ Technical Specification :-

Material	FRP Pultruded
Process	Automatic Pultrusion Plant
Surface	Smooth and Glossy
Design	Telescopic Type
Locking	Push Button type Locking System
Total Section	03 Section
Assembled Lenght	18 Feet Lenght
One Minute dry Power Frequency Voltage with stand	11 KV rms, 33 KV rms, 132 KV rms,
Glass Content	65%
Top Section Dia	25 mm.
Bottom Section Dia	45mm.
Earthing	Die cast aluminium earthing instrument for 30mm. Dia
Cable (For 11KV)	4 sq. mm. copper cable 06 mtr. long
Cable (For 33KV)	10 sq. mm. copper cable 09 mtr. long
Cable (For 132KV)	35 sq. mm. copper cable 15 mtr. long
Clamp	Crocodile grounding clamp
Cover	Cover including

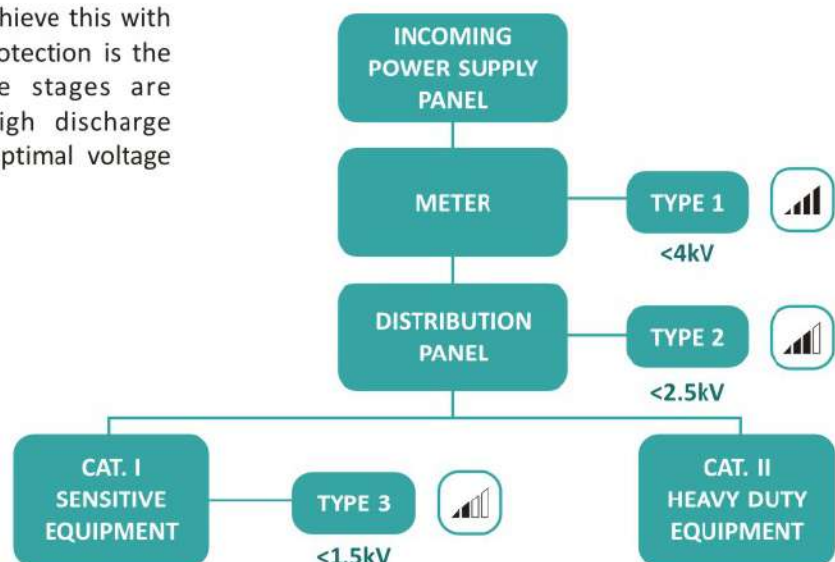


Discharge Rod

⚠️ MERSEN Surge Protection Device (Basic guide to selection of SPDs)

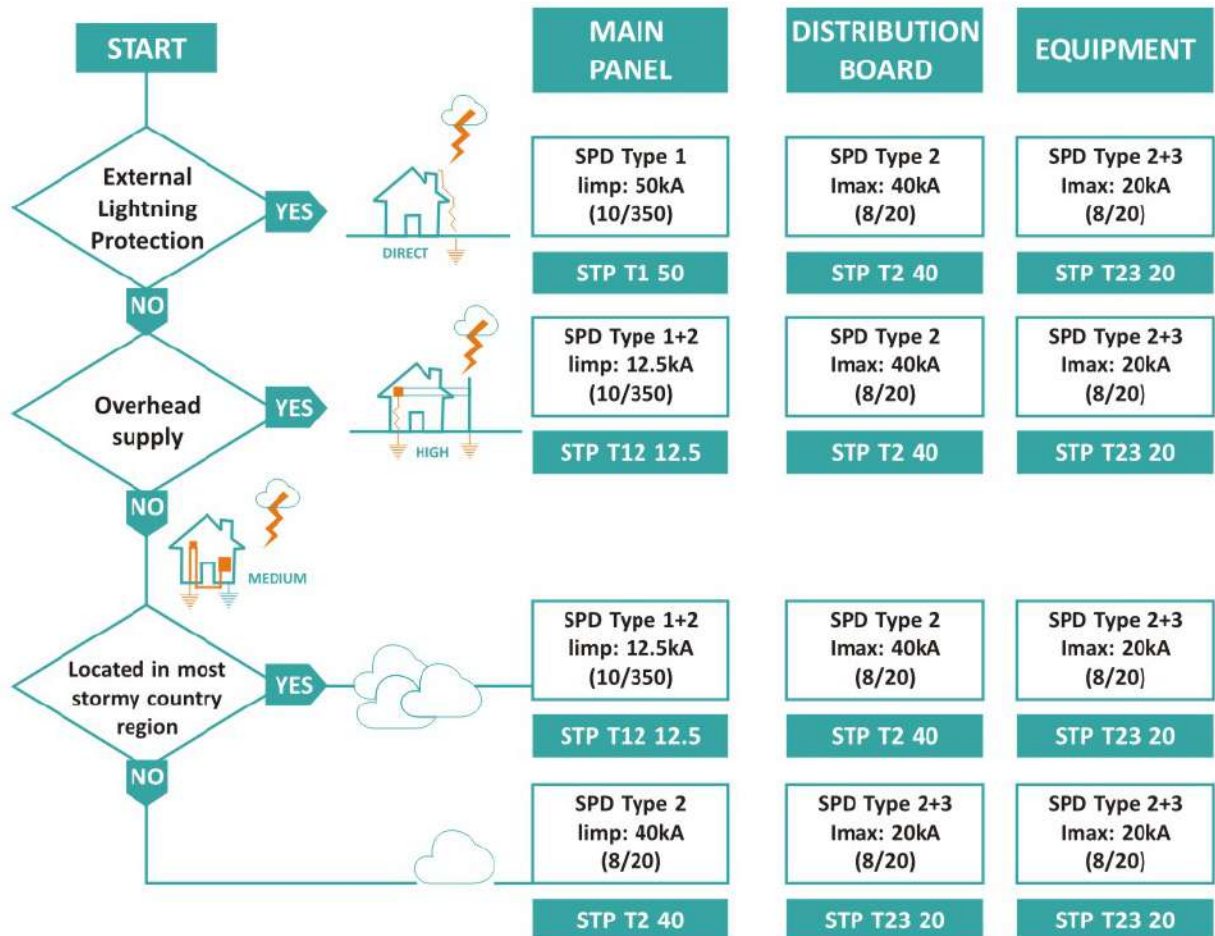
● Protection using the 3-stage method :-

- Technical features differ from SPD to SPD.
- The SPDs of a protection system must be able to withstand the discharged current and provide a U_{res} level (residual voltage) lower than the U_e peak voltage that the equipment can withstand.
- Most of the times it is not possible to achieve this with just one SPD. The optimal system of protection is the CASCADE type, in which successive stages are combined in the performance of high discharge capacity devices and devices with an optimal voltage protection level (low).

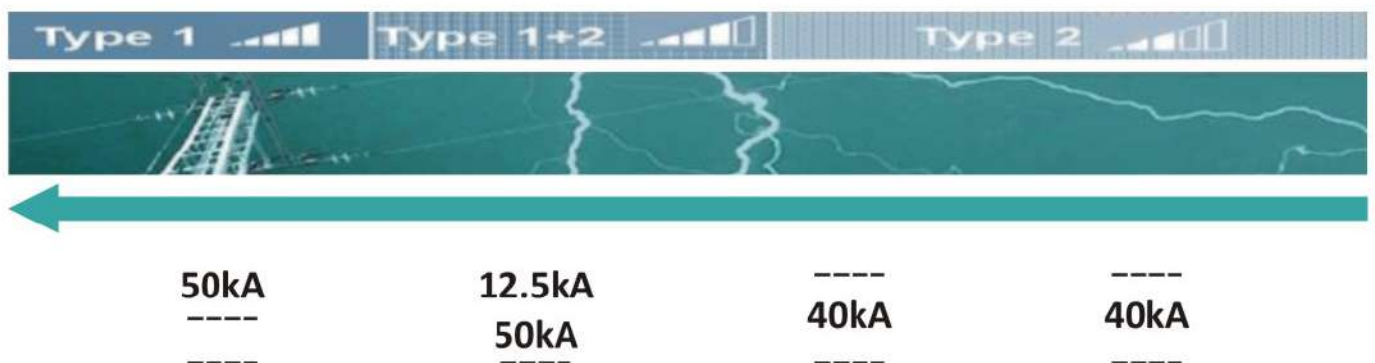


⚡ Basic Guide to selection of SPDs

• Industrial or large applications :



⚡ MERSEN OVERVIEW





FINE PROTECTION

STP T23



SLIM SPACE SAVING

STM T23 S



POWERFUL EMI FILTER

STE T23



LED STREET-LIGHT 10kV

STL T23

Type 2+3

Capacity Discharge (kA)

20kA
10kA

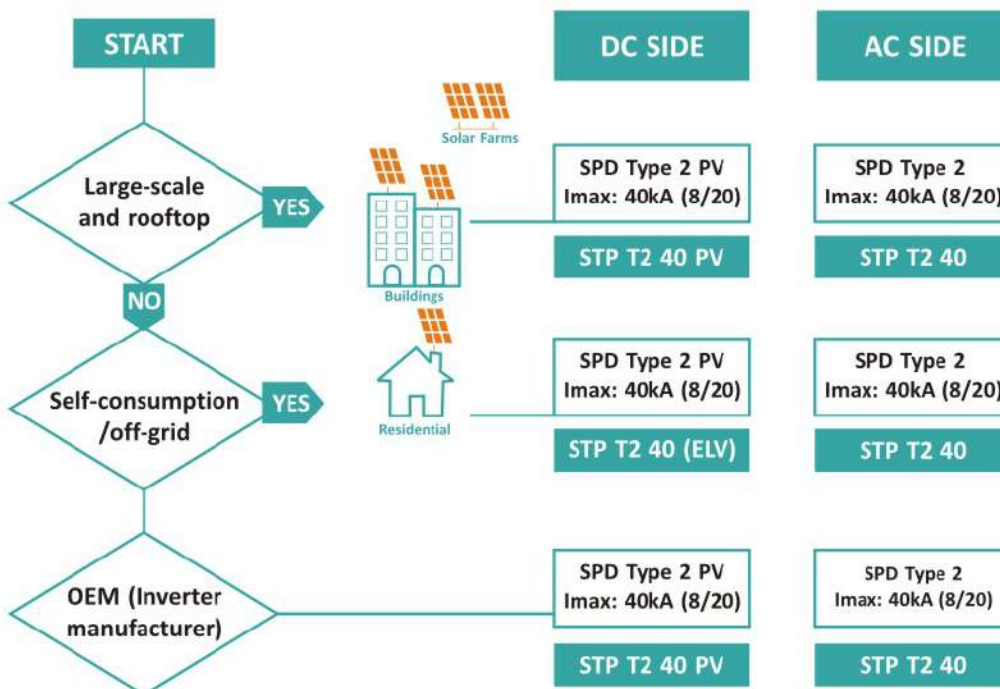
20kA
6-10kA

20kA
6kA

10kA
10kA

limp
Imax
Uoc

⚠ Basic guide to selection of SPDs (Photovoltaic)



*MERSEN is Registered Trademark of MERSEN INDIA

⚠ ACME - Direct Current Distribution Box (acme - DCDB)

- DC Distribution Box is used to collect output of solar cells and supply it to inverter to get AC output.
- Main parts used in any DCDB are DC MCB, DC Fuses, Connectors, DC SPDs etc.
- Specification of DCDB are usually defined in terms of Input & Output like 2 IN 2 OUT.
- DCDB may be defined a disconnectors unit to disconnect the solar output from inverter section.

- ACME DCDB are designed to withstand tough conditions of operation hence provides maximum Output to the user



EXOTHERMIC WELDING TOOLS



Graphite Mould

- Graphite mould is made of high quality graphite, and can be used For several times. The exothermic welding reaction takes place in a specially Designed and manufactured with a specific weld cavity and in this cavity the Molten metal is allowed to flow to all sections of the required connection Creating the permanent connection.



Mould Handle Clamp

- Suitable for maximum exothermic moulds.



Steel Metal Disk

- Steel Discs are very important. The disc act as timing device to allow the Welding powder to heat to proper temperature.



Exothermic Weld Powder

- Exothermic weld powder is the main part of any exothermic process. Upon weld powder is specially packaged in moisture-resistant plastic tubes. Standards Size Packing are 25 grams, 90 grams, 150 grams, 200 grams, 250 Grams.



Ignite Powder

- Ignite Powder also known as Starting powder is required to start the Reaction. Starting powder on the Mould followed by the exothermic weld Powder and again pour little on the top side of mould. Then Ignite starting Powder with a spark gun. Ignite powder of 5 grams is sufficient for this process.



Hand Gloves

- Gloves are required for safety purpose as the Exothermic weld powder Melts at more than 1500 °C. One Hand Gloves pair is good for 250 joints.



Flint Gun

- It is designed with the advantages of safety and convenience. It is used to ignite starting powder in order to result in exothermic reaction.



Soft And Hard Brush

- Soft Brush :- Its used to clean Mould weld cavity because its shape is very sensitive and cavity should not be any damage while using Brush.
- Hard Brush :- Its used to clean other section of Mould.

Slag Removal Tool

- It is used to remove the metal Scrap and Dust from the Mould.

File Card

- It is used to clean the objects to be welded to remove rust and dirt.

Sealing Compound

- Sealing Compound is used to fill the gap on the mould where the conductor is passing.

Flame Torch

- Sealing Compound is used to fill the gap on the mould where the conductor is passing. Flame Torch can be used for 200+ Joints.


Safety Eye Glasses

- Safety Eye Glass should be wear to protect eyes.

⚡ Lightning Arrester- PROTECTOR

Product Specification (ESE)

Product Specification (ESE)	
Standard	French standard NFC 17-102 (July 1995)
Protection	Direct Lightning Strike
Design Parameters	Collection Volume Method
Basic Theory	The design parameters of collection volume method include height, field intensification of structures projection, leader charge, site altitude & relative propagation velocities of the interception leader. It is known as early streamer emission method.
All Weather Protection Method	Systems developed by Collection volume method are known as all weather performances, which perform in all weather conditions which takes into account the relative velocities of upward and downward leaders. This leads to the development of limiting parabola & protect from all cloud or all types of cloud charge carriers in any weather or stormy conditions.

Risk Factor Calculation	Risk assessment method or factors based on (a) Building environment (b) Type of Constructions (c) Structure contents (d) Structure occupancy (e) Lightning strike Frequency	 ESE Lightning Arrester
Main Features	<ul style="list-style-type: none"> ➤ Complete Maintenance free. ➤ Does not require any external power supply. ➤ Create automatic electronic circuit of high voltage impulse emitter during all weather conditions. ➤ Single discharge tip for effective charge spread. ➤ Wholly Manufactures with stainless steel AISI-316. ➤ High quality anti corrosive & Conductive coating 	

Product Specification (Cooper)		 Franklin Lightning Arrester
Spikes	5 Nos	
Length of Spike	90 mm	
Mounting bar height	500 mm - 1500 mm	
Mounting bar dia	14 mm -17 mm	
Mounting Base	85 mm	
Sphere Dia	53 mm	

ACME - Supporting Mast (acme)

Acme Support Mast are made out of Quality Steel with Galvanization. These Mast are available in Different Sizes of 40mm/ 58mm. dia and height of mast 2mtr, 3mtr, 5mtr, 9mtr. Support Mast is Fixed with a insulating material on top this insulation prevents any under flow of current.



Few of our esteemed customers :-



For Technical / Sales / Installation related queries,

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Call us : +91 86909 72754 / +91 95300 27222

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