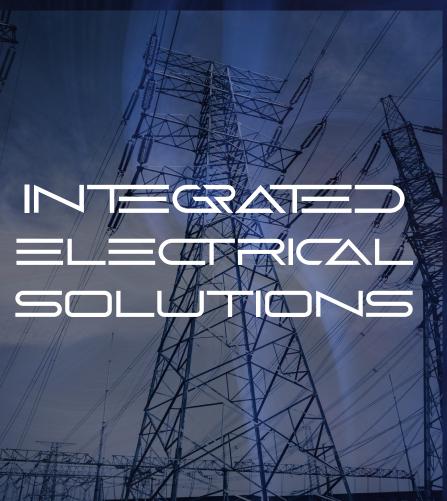


PROFIL ZOMPANY



بني ثقة تدوم



www.mhg-eg.com |info@mhg-eg.com



f /mhg.series /mhg.series in /company/mhg-eg/



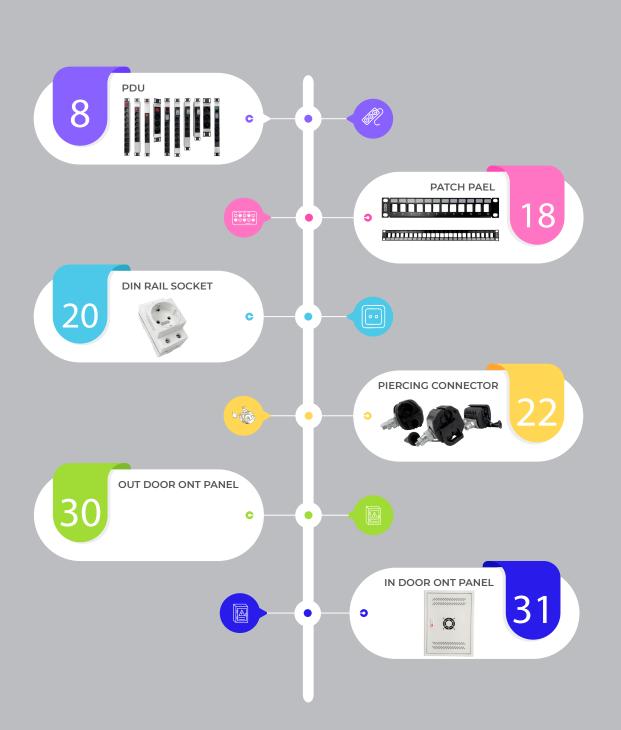
MHG is a leading Egyptian company dedicated to delivering the highest standards of quality in the field of electrical works and supplies. With a commitment to excellence,

MHG provides a comprehensive range of innovative solutions and products designed to meet the evolving demands of the engineering sector.

Our priority is achieving unparalleled customer satisfaction while adhering to the highest industry standards and addressing the growing needs of the market.



TABLE OF CONTENTS



FROMUS

WELEOME

Thank you for choosing us. We fully understand the value of the time and effort you invest in searching for reliable and high-quality services. Your trust is highly appreciated, and our primary goal is to meet your needs in the best way possible."

نشـكركم على اختياركـم لنبا، فنحـن نـدرك تمامـا أمميـة الوقـت والجمـد المبذوليـن فـي البحـث عـن خدمـات موثوقـة وعاليـة الجـودة. إن ثقتكـم بنـا محـل تقديـر كبيـر، وهدفنـا الأساسـي هـو تلبيـة احتياجاتكـم بأفضـل صـورة ممكنـة.



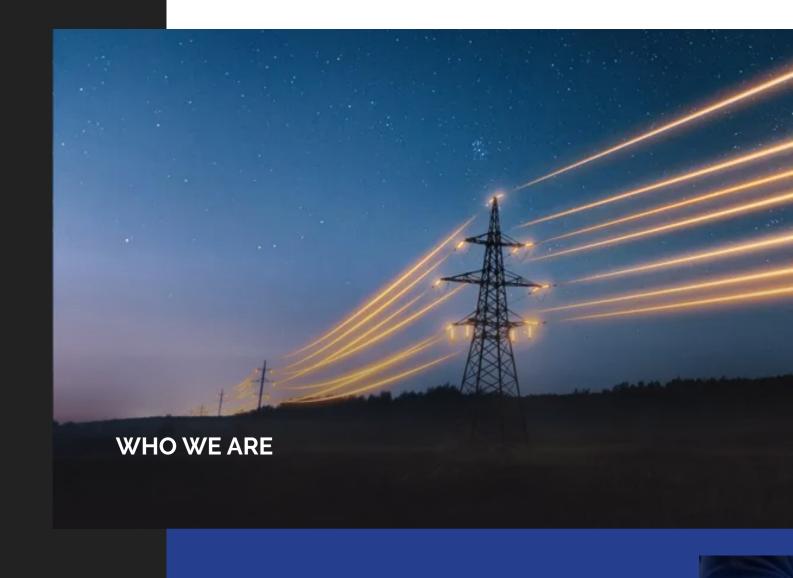


Thank you for choosing us, We know the value of each penny you spend on searching for good service. We appreciate you for trusting us..

Satisfying your needs is our mission



For Advanced Engineering Industries



Modern Horizon Group

MHG is a leading Egyptian company dedicated to delivering the highest standards of quality in the field of electrical works and supplies. With a commitment to excellence, MHG provides a comprehensive range of innovative solutions and products designed to meet the evolving demands of the engineering sector. Our priority is achieving unparalleled customer satisfaction while adhering to the highest industry standards and addressing the growing needs of the market.

نحـن شـركة مصريـة رائـدة تلتزم بتقديـم أعلى معاييـر الجودة في مجـالات الأعمـال الكهربائية والمعـدات. نسـعى لتوفيـر حلـول ومنتجـات مبتكـرة وشـاملة تلبـي الاحتياجـات المتزايـدة في القطـاع الهندسـي، مـع فمـان رضا عملائنـا التـام والوفـاء بمعاييـر الصناعـة المتطـورة.





Our Vision

We strive to establish a clear and forward-thinking vision that guarantees client satisfaction and long-term loyalty. By ensuring every product we offer combines technical excellence, creative innovation, and social responsibility, we embrace a collaborative approach to deliver exceptional results across all projects.

نطمح إلى بناء رؤية واضحة تضمن رضا العملاء وولاءهـم على المـدى الطويل. من خـلال تقديـم منتجات تجمع بيـن التميز التقنـي، الابتـكار الإبداعـي، والمسـؤولية المجتمعيـة، نعتمـد على نهـج تعاونى لتحقيق نتائج اسـتثنائية فى جميع مشاريعنا.





Our Mission

نهـدف إلـى الريـادة فـي القطـاع الصناعـي مـن خـلال تجـاوز توقعـات عملائنا عبر الابتكار المتجـدد، تقديم حلـولٍ متطورة، وخدمـة اسـتثنائية. نحـن ملتزمـون بـأن نكـون شـريكا موثوقًا لعملائنا مـن خلال تقديم القيمـة والتميز في كل مـا نقوم به. Our mission is to lead the industry by exceeding client expectations through groundbreaking innovation, state-of-the-art solutions, and exceptional service delivery. We are committed to becoming a trusted partner for our clients by consistently delivering value and excellence in everything we do.

PDU Series System



PDU Intelegence

Are designed for supplying power to equipment for incorporation into each of data center.

Within the rack, the PDU deliver the necessary power for the server and network components via a givin number of suitable connector sockets. Thanks to via a givin number of any IT rack may be quickly and easly equipped with a professional power distribution system. In addition to commercial and industrial uses.

imple units that provide power distribution to multiple devices.

в

D

Metal Angel

Use to fix the PDU in many positions inside the Rack & on the wall

Switch Braker

16 A, 6 KA MCB for thermal and magnetic protection

Aluminium Body

A strong and elegant body that has been polished in silver color to give a beautiful shape and a long life

German Soket Outlet



В

16 A, 250 VAC German standard socket outlet, 2P+E



С

Shutters

Shutter for child protection



Applications:

- Offices: Powering multiple office equipment like computers, printers, and phones.
- Small Server Rooms: Basic power distribution to servers and networking equipment without the need for monitoring or control.
- Home Use: Providing additional power outlets for home electronics.



- Display of available capacity
- Overload prevention



<text>

HIGH QUALITY ELECTRICS HIGH QUALITY CONNECTION SOCKETS EQUIPPED WITH SAFETY SHUTTER

Power Distribution Units

And their applications Design standards

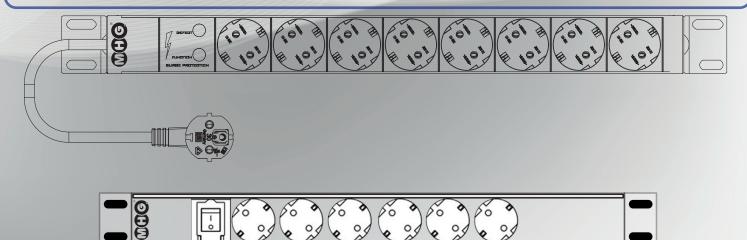
POWER DISTRIBUTION UNITS (PDUS) ARE CRITICAL COMPONENTS IN MANAGING POWER DISTRIBUTION IN VARIOUS ENVIRONMENTS. THEIR APPLICATIONS VARY BASED ON THEIR TYPES AND THE SPE-CIFIC NEEDS OF THE FACILITY OR EQUIPMENT THEY SUPPORT. HERE ARE DETAILED DESCRIPTIONS OF THE MAIN TYPES OF PDUS AND THEIR APPLICATIONS:

Hozizontal or Vertical



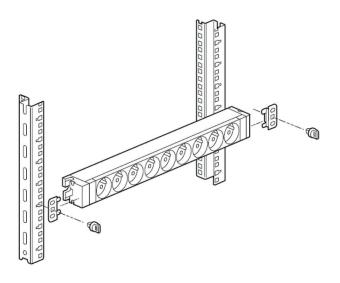
Designed for horizontal toolless mounting, 1-U PDU can also be mounted vertically simply by rotating the mounting lugs.

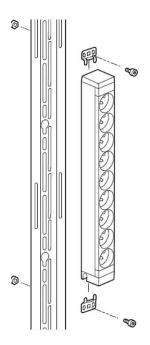
Vertical mounting requires a bolt and nut to fix the PDU securely to the racket.





Mounting Brackets





Horizontal Mounting

In MHG 19" Cainnets

Can be mounted in all 19" cabinets except for 19" HD racks which require the use of equipment screws.

Vertical Mounting

In freestanding Cabinets with support

UPGRADE TO THE NEXT NERATION INTELLIGENT PDU'S

600	

Model Numer	Series	Product Description
19-3WZCN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-Way With C.B 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Model Numer	Series	Product Description
19-3WZBN-V01	* 4000 WATT	PDU 3-Way With Switch 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Model Numer	Series	Product Description
19-6WZCN-V01	* 250 V	PDU 6-WAY WITH C.B 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Basic Power Distributio Uits (PDU)

Comprehesive and Advaced Reliale Power Solution

Power

Solution

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				10	•	•	Ø	
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Model Numer	Series	Product Description
19-6WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 6-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Model Numer	Series	Product Description
19-6WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 6-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Model Numer	Series	Product Description
19-9WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 9-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM

Model Numer	Series	Product Description
19-9WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 9-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 488 MM * 46MM *46MM





Model Numer	Series	Product Description
16-3WZCN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH C.B 1.5 MTR DIM (L*W*D) 430 MM * 46MM *46MM

Model Numer	Series	Product Description
16-3WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 430 MM * 46MM *46MM

Model Numer	Series	Product Description
16-3WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 430 MM * 46MM *46MM

Model Numer	Series	Product Description
16-6WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 6-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 430 MM * 46MM *46MM

PDU for Data Ceter and IT nfrastructure

Model Numer	Series	Product Description
16-6WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 6-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 430 MM * 46MM *46MM



Model Numer	Series	Product Description
10-3WZCN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH C.B 1.5 MTR DIM (L*W*D) 347 MM * 46MM *46MM

Model Numer	Series	Product Description
10-3WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 347 MM * 46MM *46MM

Model Numer	Series	Product Description
10-3WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 347 MM * 46MM *46MM

- Highest availability with the Kentix SmartPDU
- Seamless rack monitoring including early fire detection
- Reliable power supply for IT, OT, edge data centres and large data centres
- PDU without compromise for critical applications
- Continuous residual current measurement (RCM) to increase electrical safety and fire protection



Model Numer	Series	Product Description	
8-3WZBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH SWITCH 1.5 MTR DIM (L*W*D) 270 MM * 46MM *46MM	

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Model Numer	Series	Product Description
8-3WZAN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITHOUT SWITCH 1.5 MTR DIM (L*W*D) 270 MM * 46MM *46MM

Model Numer	Series	Product Description
8-3WXBN-V01	* German Plug * 4000 WATT * 250 V * 16 A	PDU 3-WAY WITH SWITCH 0.5 MTR DIM (L*W*D) 270 MM * 46MM *46MM

Model Numer	Series	Product Description
8-3WXAN-V01		PDU 3-WAY WITHOUT SWITCH 0.5 MTR DIM (L*W*D) 270 MM * 46MM *46MM

Patch Panel Category 6-6A UTP

12 - 24 Port



Main

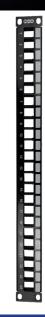
Product or Component Type	Patch Panel	
Communication Network Category	6	
Accessory / Separate part Designation	Insulation Displacement Connector	
Cable Shielding Type	UPT	
Number of Port	12 / 24	





Simple compact beautiful

Help you build neat ans reliable room



Complementary

Product or Component Type	RJ45		
Communication Network Category	Steel		
Accessory / Separate part Designation	10 Inch 19 Inch W 254mm H 44.2mm W 482.6mm H 44.2mm		
Cable Shielding Type	1U RJ45		

Enviroment

Standards

ANSI/TIA-568-C.2 ISO/IEC 11801 Class E EIA/TIA TSB 40 A

DIN SOCKET 2P+E, 16A 250 AVC





Main

Product or Component Type	Modular Socket-Outlet		
Poles Description	2P+E		

Enviroment

Standards	VDE 0620 UNE 20315-1-1 IEC 60068-1				
IP Degree of Protection	IP 20 Conforming to IEC 60529				
Amient Air Temperature for Operation	- 25 °C : 70 °C				



Complementary

[In] Rated Current	16 A
[Ue] Rated Operational Voltage	250 V AC 50/60 Hz
Mounting Mode	Fixed
Mounting Support	DIN Rail
Height	81 mm
Width	45 mm
Depth	55 mm
Net Weight	100 g
Color	White
Connections - Terminals	16 mm2 Flexible 110 mm2 Rigid

PIERCING CONNECTOR



General Feature:

- Piercing connector, simple installation, need not strip the cable coat
- Moment nut, piercing pressure is constant, keep good electric connection and make no damage to conductor
- Self-seam frame, wetproof, waterproof, and anti corrosion, extend the using life of insulated lead and connector
- Adopted special connecting tablet apply to joint of Cu(AI) and AI
- Small electric connecting resistance, impulse current can be up to 15KA
- Special insulated case body, resistance to illumination and environmental aging, the insulation strength can up to 6KV, Arc surface design, apply to connection with the same(different) diameter, wide connection scope(1.5-240mm2).

PAGE 22

1 Bolt 1KV Series

	MH-70	MH 2-95	MH 2-150	MH-6	MH-7	MH-55	
Main Cable (mm²)	6 - 70	16 - 95	50 - 150	120 - 300	150 - 240	35 - 185	
Branch Cable (mm²)	4 - 25	4 - 50	6 - 50	10 - 120	10 - 25	4 - 50	
Current (A)	157	157	157	276	102	316	
Torque (Nm)	20	20	20	35	35	18	

The Insulated Piercing Connector (IPC) is an advanced engineering solution designed for efficient electrical connections without the need to strip cable insulation. Its waterproof, corrosion-resistant, and durable design ensures a reliable and long-lasting connection, making installation fast, secure, and hassle-free.



•Function & Importance

The torque nut is a critical component of the Insulated Piercing Connector (IPC).

It ensures consistent and precise tightening, preventing over-tightening or under-tightening, which could compromise the electrical connection.

Designed to shear off at a pre-set torque, guaranteeing optimal contact pressure.

Eliminates the need for torque wrenches, ensuring easy and reliable installation. Prevents conductor damage and ensures long-term performance.

Sealing & Waterproofing Components:

Material: Silicone Rubber or Thermoplastic Elastomer (TPE)

Key Properties:

Ensures IP67 waterproofing to prevent moisture ingress.

Provides electrical insulation, protecting against short circuits.

Highly flexible, allowing for a secure, tight fit around cables.



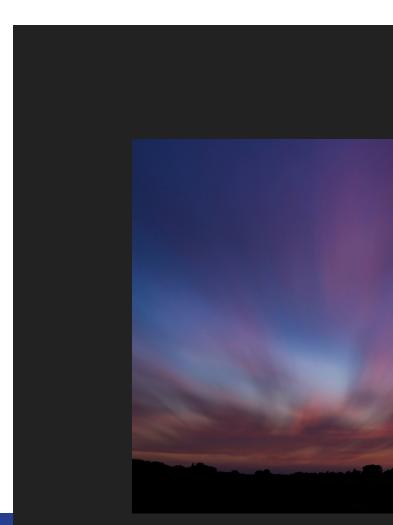
KEY FEATURES & BENEFITS:

01

Easy Installation – No need to strip the cable insulation.

02

Consistent Contact Pressure – Ensures a reliable and durable electrical connection.



KEY FEATURES & BENEFITS:

03

Superior Protection – Waterproof, moisture-resistant, and UV-resistant for enhanced durability.

04

Versatile Application – Suitable for both aluminum-to-copper and copper to aluminum connections.

05

High Electrical Performance – Low contact resistance for optimal conductivity.

06

Excellent Insulation Strength – Withstands voltages up to 12 kV, ensuring safety and reliability





Bolts And Gaskets

Material: Hot Dip Galvanized Steel

Key Properties:

High tensile strength to withstand mechanical stress.

Corrosion resistance, especially in marine or high-humidity environments.

Anti-rust coating ensures a longer lifespan.

INSULATION BODY & HOUSING:

Material: Glass-Fiber Reinforced Polyamide (PA66) **Key Properties:** High mechanical strength and impact resistance. Excellent thermal stability, capable of withstanding extreme temperatures. UV-resistant for long-term outdoor durability. Flame-retardant properties for fire safety compliance.

INNOVATIVE USE OF TIN COATING:

- The contact blade is coated with tin to prevent direct electrochemical reactions between copper and aluminum when these metals come into direct contact, they are prone to galvanic corrosion, leading to rapid degradation.
- From a chemical perspective, tin (Sn) belongs to Group 14 of the periodic table, the same group as lead (Pb) and silicon (Si). It is known for its high resistance to oxidation and low reactivity with both aluminum and copper. Why Tin? Tin has a stable oxide layer (SnO₂), which prevents further oxidation and
- Why Tin? Tin has a stable oxide layer (SnO₂), which prevents further oxidation and chemical reactions with other metals.
 Why Not Direct Copper-Aluminum Contact? When aluminum and copper come into
- Why Not Direct Copper-Aluminum Contact? When aluminum and copper come into direct contact, a galvanic couple forms due to their different electrochemical potentials, accelerating corrosion and failure of the connection.
- Tin as a Protective Barrier: Since tin is chemically more stable and does not easily form galvanic couples with either aluminum or copper, it acts as an intermediate layer, effectively preventing corrosion and ensuring long-term electrical stability.



THIS BIMETALLIC CONNECTOR IS SPECIFICALLY ENGINEERED TO WORK SEAMLESSLY WITH BOTH ALUMINUM AND COPPER CABLES, ELIMINATING COMPATIBILITY CONCERNS AND ENHANCING ITS VERSATILITY FOR VARIOUS ELECTRICAL APPLICATIONS.

Installation

General Features of insulation piercing connector (IPC)

- Piercing connector, easy installation, no need to strip the cable insulatio.
- Torque nut, constant piercing pressure, ensures good electrical connection ad does not damaged the conductor
- Self-sealing frame, waterproof, moisture-proof, anti-corrosion, extends the service life of insulated conductor and the connector.
- Special connecting plate, suitable for joint of Cu (AI) and Cu (AI) or Cu and AI.
- Low electrical resistance, resistance less than 2.5 times of the resistance of the branch.
- Special insulated case body, resistance to sunlight ad environmental aging, the insulation strength ca reach 12KV.
- Arc Surface design, applicable to connection with the same (different) diameter, wide connection range 0.75mm2 - - 400mm2/td

PERFORMANCE TESTING

- Mechanical performance the grip force of the wire clamp is 1/10 larger than the breaking force of the conductor, it complies with EN50483
- Temperature rise performance: under the condition of high current, the temperature rise of the connector is lower than that of the connection conductor.
- Thermal cycle performance: conforms to GB/T2317.3-2000, thermal cycle test standard for electrical fittings.
- Waterproof Insulation performance: confirms to the relevant testing requirements in part 2 of GB/1-13140.4-1998.
- Resistance to corrosion performance: under the condition of acid and salt spray, it can withstand three cycle of fourteen days testing.



• Environment aging performance: under the condition of ultraviolet, radiation, dry ad moist, expose it to temperature changes and heat impulses for six weeks.

- Fire-Proof performance: insulation material of the connector passing glowing filament test.
- Conforms to the requirement in chapter 4-10 of GB/T5169.4 6 Screw the nut continuously until the top is cracked and dropped down.

Description

ut Door ONT Pane

Open and close door is smoothly when thhe door closed, the gap etween door and framme is uniformmity.

Width mm.: 400 | Height mm.: 400 | Depth mmm.: 212 Ventilation Rate: >= 80%

Pre-Galvanized & Electrostatic Paint

Grounding requiremmment: The resistance is less thhan 0.01 Ω between mmetal parts and grounding components

un un

ONT Panel MODERN HORIZON GROUP

Description

0

Open and close door is smoothly when thhe door closed, the gap etween door and framme is uniformmity.

Width mm.: 606 | Height mm.: 450 | Depth mmm.: 130 Sheet Metal Thicknes: 1.5 mm

Compatible with: Patch Panel 19" - PDU 19"

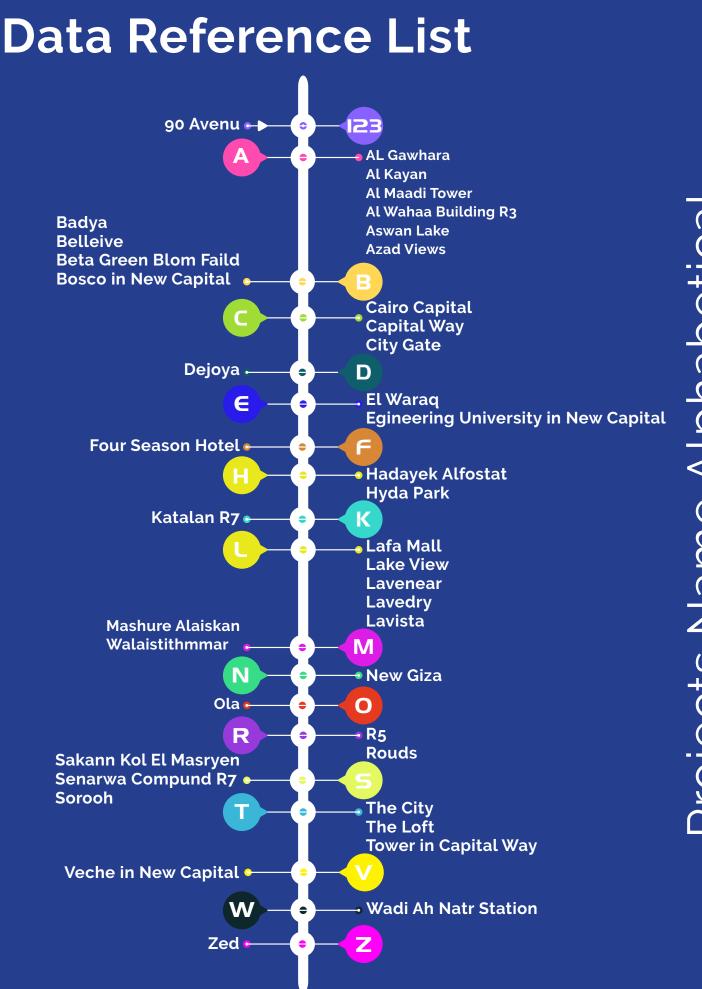
Pre-Galvanized & Electrostatic Paint

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Projects Name Alphabetica

R For Advanced Engineering Industries

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