COMPANY PROFILE

www.tu-egy.com

TU

TEBA UNITED



EMPOWERING DEVELOPMENT



www.tu-egy.com

Company Overview

TEBA UNITED has been a cornerstone of Egypt's industrial development for nearly four decades, delivering innovative electrical distribution and power solutions that drive progress across key sectors.

Through its subsidiaries, TEBA for Developed Industries and TEBA for Trading & Engineering LTD, the company combines advanced manufacturing capabilities with engineering expertise to serve industrial, commercial, infrastructure, residential, and governmental projects across Egypt and beyond. With a proven track record of more than 7,000 completed projects, TEBA UNITED has earned the trust of clients through engineering excellence, manufacturing quality, and dependable project delivery.

Our comprehensive portfolio includes Low Voltage, Medium Voltage, Diesel Generator Sets, Lighting, Earthing & Lightning Protection Systems, Fire Alarm & Fire Suppression, Special Cables, Data Center & Critical Power Solutions, Smart Automation & Control, MEP & EPC. Every solution is designed and delivered with a focus on operational excellence, reliability, and long-term value.

Complementing our manufacturing expertise, TEBA UNITED collaborates with the world's leading technology providers to deliver advanced technologies tailored to modern infrastructure requirements. Our strategic partnerships include internationally recognized brands such as Schneider Electric (LV), Himel (MV) Perkins, Cummins, Volvo Penta, Mitsubishi, HD Hyundai, Stamford, Leroy-Somer, Deep Sea Electronics, Avenger, Macurco, Italcond, Harger, Amper, AEC, Dfun, Hanniball, Kstar, Ortea, Yuasa. These collaborations enable us to combine local manufacturing excellence with globally proven technologies, ensuring every project benefits from the highest levels of innovation, efficiency, and reliability.

Vision

To be a globally recognized leader in electrical solutions, empowering sustainable development through innovation, quality, and engineering excellence.

Mission

To be the partner of choice for integrated electrical solutions by delivering innovative products, engineering excellence, and exceptional customer value across every project we serve.

1500+
Employees

39+
Year of experiences

1700
Clients

87,000 m2
Industrial area

650
Product approvals

130
Transportation units

7500
Projects

680
Operations & maintenance personnel

36
Industry Certifications

12
Sectors we serve

Eng. Mohamed Soliman Abdel Aal



(1959–2023) - He was a visionary Egyptian engineer and entrepreneur whose leadership founded TEBA UNITED and its subsidiaries, Teba for Trading and Engineering LTD and Teba for Developed Industries. He began his entrepreneurial journey in 1988 with Al Safa for Electrical Manufacturing & Contracting, gaining hands-on experience managing large-scale engineering projects that laid the foundation for his future ventures. Building on this experience, he established TEBA UNITED, expanding the company into electrical contracting, industrial manufacturing, and major infrastructure projects, while forming strategic partnerships that advanced Egypt's engineering capabilities.

Through innovative industrial initiatives, producing medium and low-voltage switchgear, power generators, lighting systems, and grounding and lightning protection products, he promoted technological advancement and national self-sufficiency.

Eng. Ahmed Mohamed Soliman



Serveing as Chief Executive Officer of TEBA UNITED, providing strategic leadership across the Group with a focus on strengthening its manufacturing capabilities, advancing technology localization, and supporting sustainable long-term growth.

With extensive experience across engineering, manufacturing, operations, and business development, Eng. Ahmed has developed a comprehensive understanding of the Group's operations and the evolving needs of the industries it serves. His leadership combines technical expertise with a strong business perspective, supporting the continued advancement of TEBA UNITED's engineering, manufacturing, and project capabilities

Under his leadership, TEBA UNITED has expanded into specialized areas of the power and infrastructure sector, including critical power and data center solutions. This includes the localization of Uninterruptible Power Supply (UPS) manufacturing in Egypt through strategic international partnerships, supporting the transfer of technology and expertise while contributing to the development of local manufacturing and engineering capabilities.

Looking ahead, his focus is on taking TEBA UNITED into its next stage of development, expanding into new areas of the power and infrastructure sector and building a stronger international presence.

TU Group

TEBA For Trading & ENG. LTD

Sole Agent
AMPER

HARGER

Sole Agent
AVENGER

Sole Agent
Italcond

Sole Agent
AEC

Hannibal
Power and Technology

YUASA

ORTEA NEXT

KSTAR

DFUN

Sole Agent
LifeSmart

MEP Contracting

Civil & Interiors

Integrated System Solutions

TEBA For Developed Industries

EcoXpert Partner
Schneider Electric

Power Plus Channel Panel Builder
Himel

Perkins
THE HEART OF EVERY GREAT MACHINE

Cummins

MITSUBISHI HEAVY INDUSTRIES, LTD.

HD HYUNDAI INFRACORE

VOLVO PENTA

LEROY-SOMER

DSE DEEP SEA ELECTRONICS

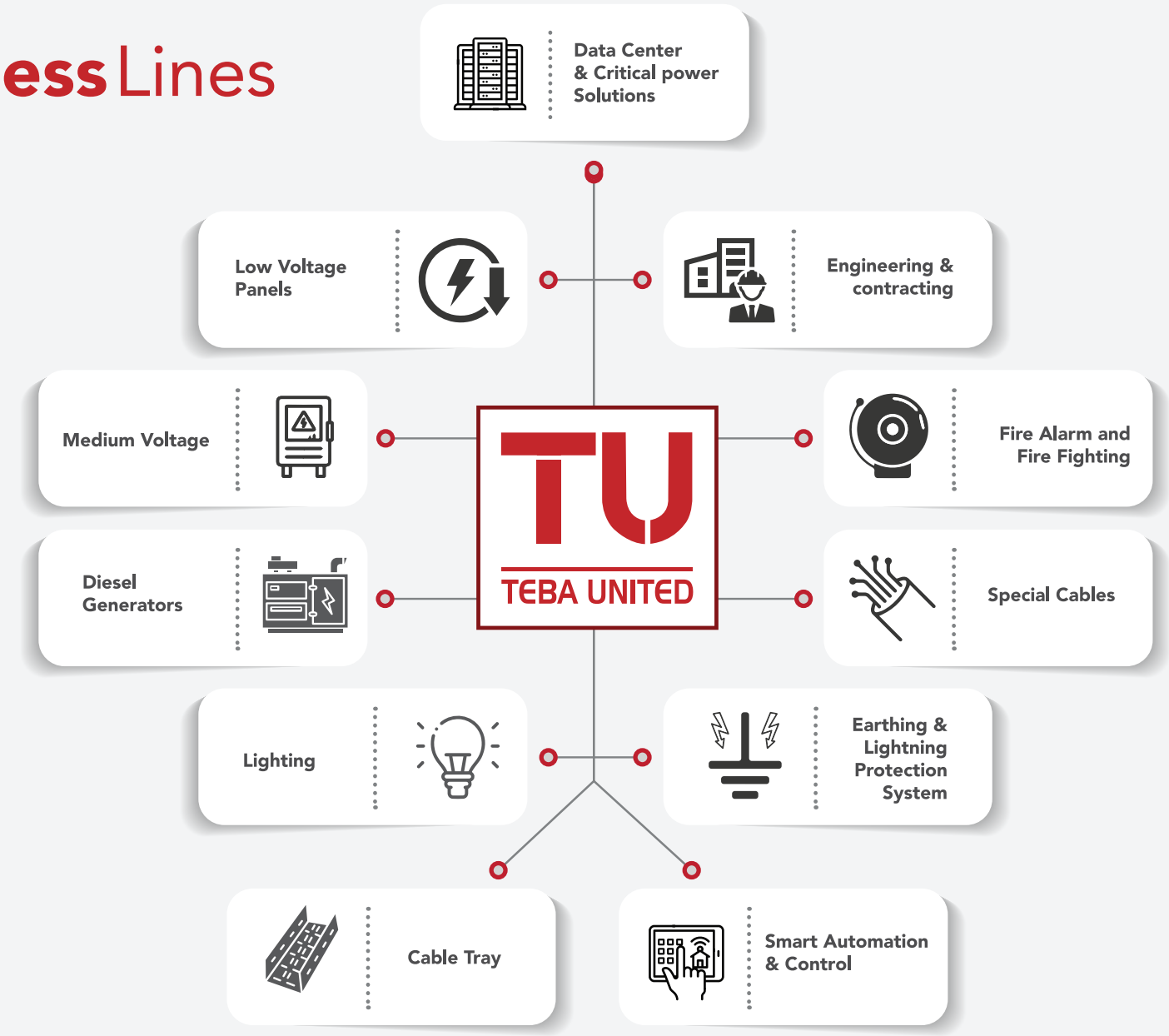
STAMFORD | AvK

TEBA LIGHTING

TEBA
EARTHING & LIGHTNING PROTECTION SYSTEMS

Cable Tray

Business Lines



Low Voltage Panels




TU
TEBA UNITED
TEBA
Electrical Hazard

Low Voltage Panels

TEBA UNITED manufactures panels with ratings up to 5000A

For more than 38 years, Teba for Developed Industries has collaborated with Schneider Electric, achieving recognition of EcoXpert. TEBA UNITED provides durable, sustainable, and diverse Low Voltage Distribution Solutions rated up to 5000A. The manufacturing facility produces a range of panel types, including PrismaSeT, Desbo, Spacial, Polyester, GRP and TEBA Panels.

TEBA UNITED delivers Schneider Electric's product solutions for design, consulting, troubleshooting, and ensuring adherence to the highest standards of quality, durability, and reliability. TEBA is in compliance with IEC 61439 1 and 2 standards.








TU
TEBA UNITED
TEBA
Electrical Hazard







Low Voltage Panels

PrismaSeT up to 4000A

TEBA UNITED offers a leading Low Voltage Switchboard solution through Schneider Electric's PrismaSeT switchboards, tailored for LV electrical installations and distribution for more than 10 years as an EcoXpert Partner. These solutions are optimized, secure, and user-friendly. They are also capable of being upgraded at any time without compromising original performance and feature a modular design.

Key Features:

- Tested and complied with IEC 61439-1 and 2 low voltage electrical distribution switchboards, tested by ASEFA, ASTA, and KEMA laboratories. "Type Tested Panels"
- Wall-mounted enclosures for electrical switchboards rated up to 630A – SC = 25KA
- Floor-standing cubicles for electrical switchboards rated up to 4000A.
- Facilitated efficient storage and handling, significantly reducing investment in machinery and tools.
- Design assured by Schneider Electric.
- Easy to store and handle - optimized time production and flexibility
- Significantly reduces machine and tool investments
- Design guarantees by Schneider Electric.
- IP42 / IP54, Temperature up to 50 degrees
- Option if Requested: Communicated with RTU through Modbus/ Ethernet TCP/IP
- Option if Requested: Monitoring/Control System through Excostruxture Platform



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Product Features

Power Factor Correction



Our capacitor banks improve power factor by introducing capacitive reactance in stages based on specific requirements. Power factor controllers monitor load and power factor, activating capacitor steps as needed to maintain a consistent value. This optimizes power factor, counters lagging reactive power (Vars), and ensures cost-effective, reliable power for the distribution network.

- Rated reactive power capacity of up to 900 KVAR.
- Multistep design for effective power factor correction.
- Availability of both standard and detuned capacitor banks.
- Incorporation of self-healing capacitors and pressure-sensitive disconnectors, equipped with discharge resistors.
- Power factor controller featuring various switching sequences.
- User-friendly installation and maintenance.

Motor Control Center (MCC)



Our motor control center panels guarantee uninterrupted productivity through optimal synchronization among all active components. The Key benefits include:

- Rated power capacity of up to 900 KW.
- Rated operating voltage up to 400 V.
- Sufficient cabling space to facilitate easy connections.
- Top and bottom cable entry options.
- Panels designed for front or rear access to meet specific application requirments.
- Protection index ratings of IP54 up to IP66.
- Free-stand
- Maximum safety and reliability standards.
- Customized designs tailored to meet end-user specifications.
- Control mechanisms employing Variable Frequency Drives (VFD), soft starters, Direct-On-Line (DOL), star-delta configurations, Programmable Logic Controllers (PLC), and/or conventional control methods

Synchronization Panels



TEBA UNITED's synchronization panels are engineered to ensure seamless synchronization among multiple generators while supporting multiplex solutions.

- Rated operation capacity of up to 7,500 A.
- Available in Configurations of 3-pole or 4-pole systems based on requirements.
- Capabilities for load sharing and or shedding.
- Provision for both automatic and manual synchronization.
- Protection class ratings of up to IP54.

Smart Panels

- Designed for intelligent communications, panels are ready to connect with remote terminal unit RTU in RMU
- Integration capabilities with various systems including Building Management Systems (BMS), supervisory control and data acquisition (SCADA), and fire alarm system
- Provision for remote control of diverse panel components, as well as monitoring of energy usage and the operational status of each circuit within the panel

ATS and MTS Control Circuits Solutions



- Rated operation capacity of up to 5000 A.
- Capable of supporting all types of Automatic Transfer Switch (ATS) configurations: 1 out of 2, 2 out of 3, 3 out of 5, and 2 out of 4.
- Protection index ratings of IP54 up to IP66.
- Options to be controlled by classic control and PLC system.
- ASCO series (300-700) - NEMA enclosure.
- Automatic transfer switch & bypass isolation switches up to 4000A
- UL standard 1008.
- Provided with LCD display and a programmable microprocessor controller. Provided with a communication part for monitoring and control through a (PC - smartphone - tablet - BMS) system
- Wide application range (hospital, data center, bank, ...)

Final Branch Panels

- Designed to accommodate various types of configurations
- Fishbone style rated up to 250 A.
- Capacity for up to 54 ways.
- Available in surface-mounted, wall-mounted, or flush-mounted designs.
- Protection index ratings of IP31/IP41



Main Distribution Boards (MDB) and Sub-Main Distribution Boards (SMDB)

TEBA UNITED specializes in the manufacturing of high-grade, modular, and ultra-safe main distribution panels certified by Schneider Electric, incorporating the following specification:



- TU Panels up to 5000A
- Prisma Panels with rating up to 4000A.
- High-purity red copper bus bars for superior conductivity.
- Terminal spacing designed for straightforward connections.
- Options for both front and rear access.
- Protection ratings extending from IP31 up to IP66.
- Electrostatic coating for enhanced durability.
- Compliance with IEC 61439-1 standard for assemblies
- Electrostatic coating

Certificates

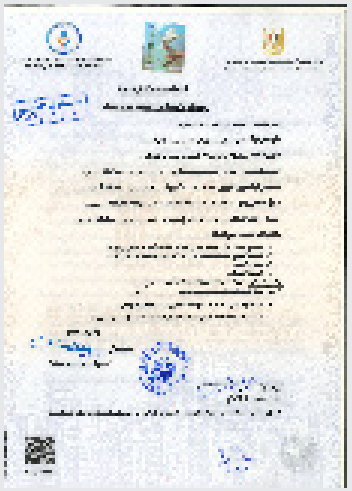












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Medium Voltage




TEBA
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For Developed Industries
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For Developed Industries

Medium Voltage

TEBA UNITED is recognized as a leader in high-quality and reliable power distribution solutions tailored to meet varied industry standards. Through a commitment to cutting-edge technology and stringent quality assurance, TEBA UNITED consistently delivers products designed for efficiency, safety, and exceptional performance across varied applications. Our comprehensive portfolio of secondary medium voltage solutions includes an extensive range of advanced products and functional units, specifically crafted to provide users with seamless access to all essential panel types and configurations in medium voltage. By continuously expanding our offerings, Teba United ensures clients receive versatile, robust solutions that cater to the dynamic needs of today's power distribution landscape.

Certificates


شهادة اعتماد
محمات شبكات توزيع الكهرباء
السادة/ شركة طيبة للصناعات المتطورة
هذا الاعتماد ساري لمدة ٣ سنوات اعتباراً من ٢٠٢٥/٠٦/٣٠


شهادة اعتماد
محمات شبكات توزيع الكهرباء
السادة/ شركة طيبة للصناعات المتطورة
هذا الاعتماد ساري لمدة ٣ سنوات اعتباراً من ٢٠٢٥/٠٩/٢٣


شهادة اعتماد
محمات شبكات توزيع الكهرباء
السادة/ شركة طيبة للصناعات المتطورة
هذا الاعتماد ساري لمدة ٦ أشهر اعتباراً من ٢٠٢٥/٠٣/٠٢


شهادة اعتماد
محمات شبكات توزيع الكهرباء
السادة/ شركة طيبة للصناعات المتطورة
هذا الاعتماد ساري لمدة ٦ أشهر اعتباراً من ٢٠٢٦/٠٣/١٧


شهادة اعتماد
Engineering Product Design Certificate


شهادة اعتماد
محمات شبكات توزيع الكهرباء
السادة/ شركة طيبة للصناعات المتطورة
هذا الاعتماد ساري لمدة ٦ أشهر اعتباراً من ٢٠٢٥/٠٩/١٦

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Medium Voltage Product Features

Our product portfolio is strategically designed for optimal performance in diverse environments:



Compact Substation Kiosk (TUA-KIOSK12):

solution that combines Medium Voltage (MV), Transformer (TR), and Low Voltage (LV) components to deliver secure power distribution across various applications. Rated up to 1500KVA and certified by the Egyptian Electricity Holding Company, this kiosk ensures reliability and compliance.



SF6-AIS Ring Main Unit (TUFN6-24):

Operating at 24KV, 630A, and 25KA/1 second, this unit employs SF6 gas insulation technology, providing superior insulation with minimal maintenance, making it highly suitable for compact and durable environments.



AIS Ring Main Unit (TU-RING12):

Equipped with our Load Break Switches (TUL, TUE, TUF) rated for 12KV, 630A, and 25KA/1 second, this AIS RMU offers secure and efficient secondary medium voltage distribution designed for exceptional reliability, adaptability, and safety, thereby serving critical power network requirements effectively.

Smart Ring Main Unit (RMU):



designed for advanced medium voltage distribution applications, combining reliable switching and protection functions with intelligent monitoring and remote-control capabilities.

The unit is equipped with an integrated Remote Terminal Unit (RTU) for seamless communication with SCADA systems, enabling real time monitoring, remote operation, event recording, and distribution automation.

- SMART RMU WITH INTEGRATED RTU
- Fixed Vacuum Circuit Breaker (VCB)
- Load Break Switches (LBS)
- SCADA Ready
- Remote monitoring & control
- IEC 62271 Compliant
- Feeder Automation
- Grid Automation and SCADA Interface
- Power Metering and control

Diesel Generators




TU
TEBA UNITED
CALL CENTRE
17129
VOLVO
PENTA
TEBA
Perkins
STAMFORD
DEEP SEA
ELECTRONICS
DSE

Diesel Generators

TEBA UNITED is a manufacturer and esteemed partner specializing in diesel generators. Our operations encompass the local assembly and importation of a complete Package of Generator Sets, with a commitment to producing high-quality products, including:

- Canopies.
- Trailers.
- Fuel Tanks.
- Control Panels.

Our organization is dedicated to the development, manufacture, sale, and installation of systems for diesel generators that provide electrical energy.

Our facility utilizes advanced technology, such as laser cutting machines, CNC punching machines, and CNC bending machines, to ensure high quality production standards and high operational efficiency







TU Diesel Generators Range

TEBA UNITED offers an extensive range of generator set capacities, which include:

- Range is starting from I0 KVA up to 3750 KVA
- Operating Frequency:50 up to 60 Hz; 1500/1800 r.p.m
- Operating Voltage:Low and medium voltage (0.38, 0.48, 3.3, 6.6, and 11) KV
- Compliance with applicable legal requirements for all generator sets
- Gensets are rated in accordance with ISO 8528 -1 standard conditions and compliant with BS 5514, ISO 3046
- Gensets have been tested in accordance with ISO 8528-6 standards
- TU manufacturing facility operates in accordance with ISO 14001:2015, 45001:2018 and ISO 9001:2015

Diesel Engines

Perkins

Cummins

VOLVO PENTA

HD HYUNDAI INFRACORE

MITSUBISHI HEAVY INDUSTRIES

Alternators

STAMFORD | AvK ™

LEROY-SOMER™

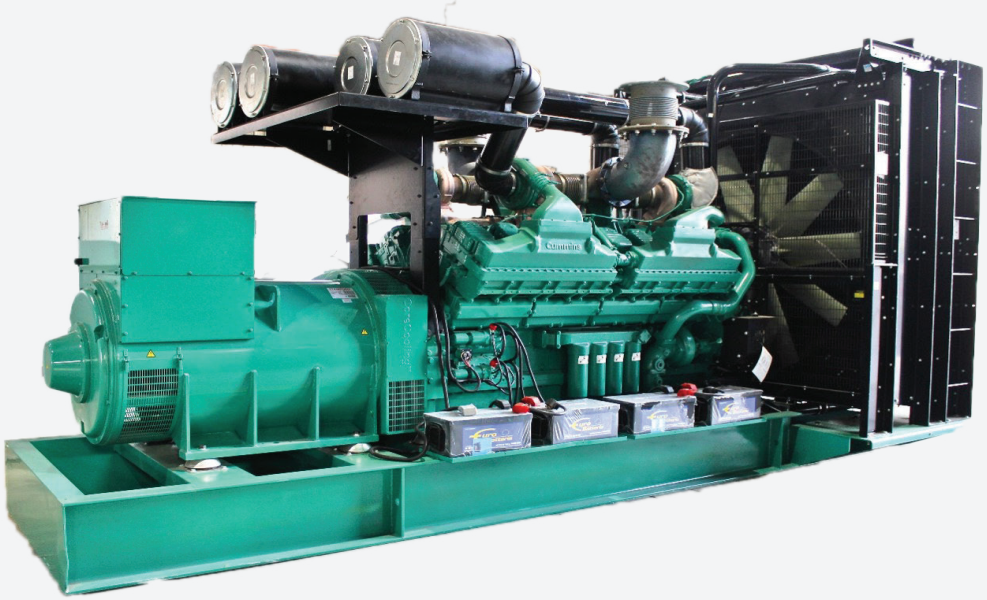
Control module

DSE DEEP SEA ELECTRONICS

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TU Product Types

- Open-type diesel generators
- Closed-type diesel generators enclosed in soundproof canopies
- Closed-type diesel generators enclosed in super silent soundproof canopies
- Closed-type diesel generators enclosed in weatherproof canopies
- Trailers with load capacities ranging from 1.5 to 30 tons
- Fuel tanks with capacities up to 40 m^3 (Single-wall or Double-wall design).
- Synchronization and Automatic Transfer Switch (ATS) panels
- Light towers





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Diesel Generators After Sales

TU Service Center:

TEBA UNITED Service Center provides professional service and maintenance for Diesel generating set, delivered by certified engineers using fully calibrated devices and tools, in compliance with international standards.

Our Capabilities:

- Preventive & corrective maintenance.
- Emergency breakdown support.
- Testing, commissioning & troubleshooting.
- Diesel generating set repowering.
- Load bank testing.
- Spare parts (Engine, alternator, and control panel).

We Support:

- Diesel generating set.
- Engine and alternator overhauling.
- Control panel with different control modules (Deep Sea, ComAp,etc.).
- Automatic Transfer Switch (ATS).
- Synchronization Panels.
- Spare parts.











Diesel Generators Installation Services

Exhaust System Engineering & Installation:

Design and installation of generator exhaust piping systems ensuring safe emission discharge and compliance with operational standards.

Fuel Supply System Installation:

Including fuel tanks, transfer pumps, piping networks, and filtration systems for reliable generator operation.

Acoustic Treatment for Diesel Generator Rooms:

Utilizing soundproofing materials and engineered acoustic solutions to achieve optimal noise control.



Certificates



مركز تكنولوجيا الصناعات الهندسية
Engineering Industries Technology Center

وزارة التجارة والصناعة
الإدارة العامة للمراكز التكنولوجية الصناعية

شـــهـــادة
اعتماد وصلاحية

يشهد مركز تكنولوجيا الصناعات الهندسية بوزارة الصناعة والتجارة بأنه طبقا للاتفاق المبرم بين المركز وشركة " طيبة للصناعات المتطورة " الكائنـة فى " مصنع مؤجر بملك / محمد سليمان عبدالعال - عقد ايجار(ينتهى فى 2028/3/31) - الدورالارضى والاول علوى من القطعة (22 ب) - المنطقة امتداد أ7 (زيزينيا سابقاً - مدينة العاشر من رمضان - محافظة الشرقية " تم مراجعة الرسومات الهندسية التصميمية والتفصيلية لها لزوم إنتاج " مولد كهربائى يعمل بمحرك الديزيل جهد فولت (11000 &6600 & 360 & 220) قدرات من 12ك.ف.أ حتى 3000 ك.ف.أ " وأن هذه الرسومات تم اعتمادها بمعرفتنا وهى مقبولة فنيا –والمنتج المذكور تم تصنيعه بمعرفة الشركة طبقا للرسومات الهندسية المعتمدة منا والمسلمة لها وبالمراجعة تبين أن المنتج المصنع مطابق لهذه الرسومات من حيث الأبعاد الرئيسية وفى حدود الدقة الهندسية المسموح بها وإنها مقبولة فنيا – كما انه تم اختبارهذه العينة المقدمة بمعرفة الشركة ولدى الشركة عند ظروف عدم التحميل وعند الحمل الكامل علما بأن العينة المقدمة لا تمثل إلا نفسها.

وهذه شهادة منا بذلك لتقديمها لمن يهمه الامر،،،

Engineering Product Design Certificate

EITC affiliated to Ministry of Industry&Foreign Trade certifies that the Engineering drawings of the product mentioned above has been audited and authenticated as per the engineering design drawing criteria.The product has been matched to the drawings provided and delivered to the company.The product has been in-house tested on loading and unloading conditions as per company testing system .The results were satisfactory and accepted. This approval refers only to the product sample itself.

The certificate has been issued on his request to be presented to whom it may concern

الاعـتمـــاد

القائم بمراجعة الرسومات الهندسية

Verified Signature- :

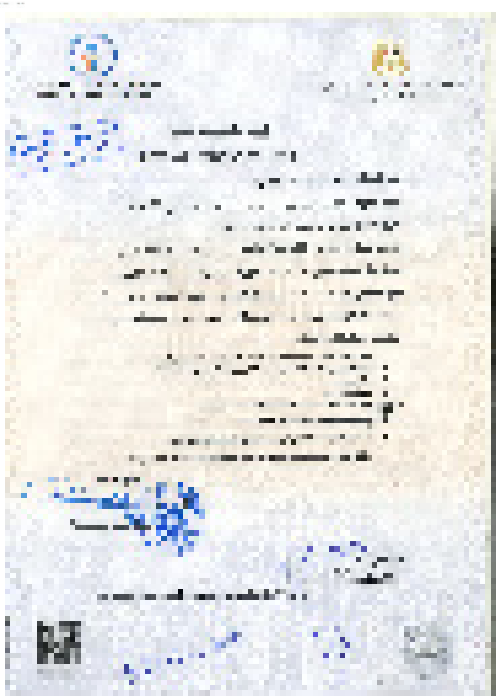
المدير التنفيذي

Signature-

Issue date: 11/2/2024

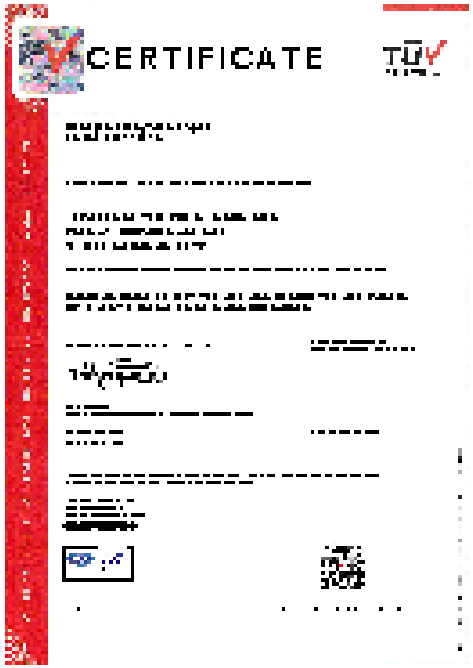
مراجع الحسابات :

code 2024/064

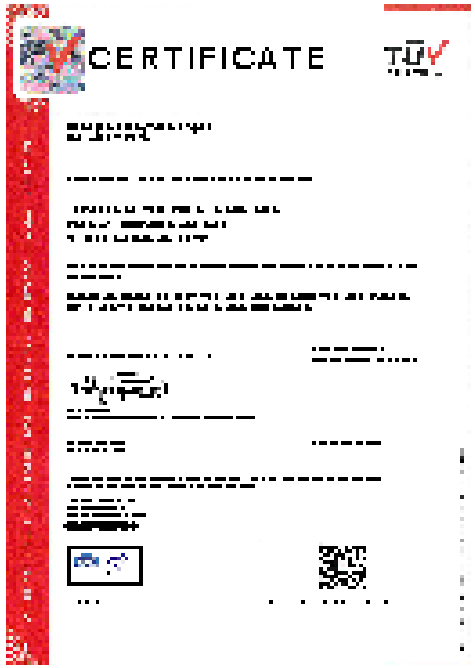




www.tu-egy.com


CERTIFICATE


CERTIFICATE


CERTIFICATE


National Organization
For Potable Water & Sanitary Drainage
الهيئة القومية
لمياه الشرب والصرف الصحى

Lighting





Lighting

TEBA UNITED has been a leader in the lighting industry since 2012, driven by a strong commitment to quality, innovation, and design excellence. What began as a mission to deliver robust and durable LED lighting solutions has evolved into a comprehensive offering that include intelligent, energy-efficient, and versatile lighting systems

Today, we provide not only advanced lighting products but also complete technical support and detailed studies tailored to meet the specific needs of each project. We take pride in sharing our experts and delivering reliable solutions to businesses, households, and a wide range of sectors

LED Chips:

TEBA UNITED is dedicated to providing superior-quality LED chips for our consumer products through partnerships with globally recognized associates.

Electronic Drivers:

We allocate resources towards providing high-performance and efficient electronic drivers, ensuring stable and long-lasting operations. Collaboration with industry leaders enables us to provide the Egyptian market with exceptional drivers.



Product Categories



Indoor Lighting

Our primary objective is to deliver indoor lighting solutions that not only function effectively but also create the desired ambiance. **TEBA UNITED**'s commitment to excellence is evident in our diverse product portfolio and services.



Outdoor Lighting

TEBA UNITED recognizes that outdoor lighting presents unique technical challenges, which we approach with dedication and expertise. We design and implement reliable outdoor lighting solutions tailored to the environment.



Decorative & Landscape Lighting

Effective lighting encompasses both functionality and artistic expression. **TEBA UNITED** is pleased to offer decorative indoor and landscape lighting solutions for discerning consumers who appreciate personalized illumination.

In public spaces, industrial sites, and other demanding environments, the need for peak performance and stability in lighting solutions is paramount. Accordingly, **TEBA UNITED** is proud to provide heavy-duty lighting solutions to meet these stringent requirements.

Indoor Lighting



Fixed Spot



Adjustable Spot



Weather Proof



Panel Light



Surface Down Light



Down Light



Emergency Exit

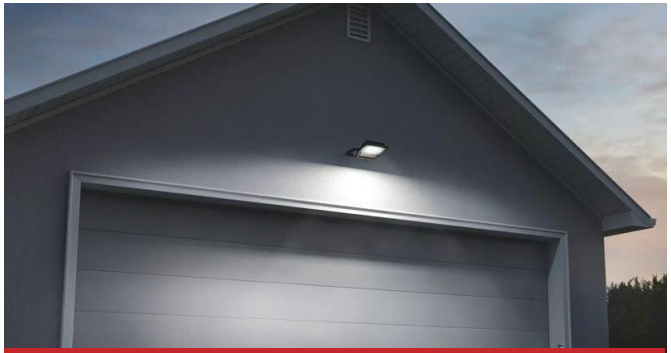


Anti-Bacterial Panel

Outdoor Lighting



High-bay Lights



Flood Lighting



Street Lighting

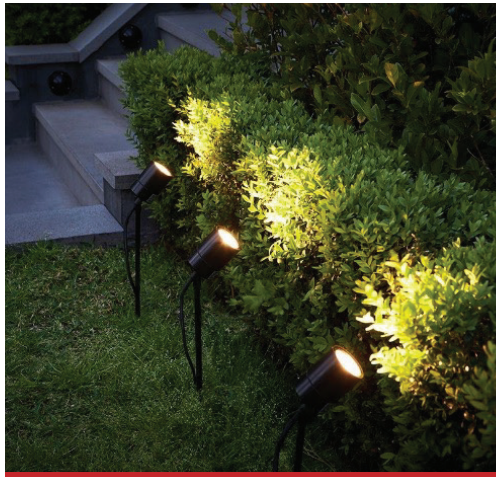
Landscape & Decorative Lighting



Up Light



Step Lights



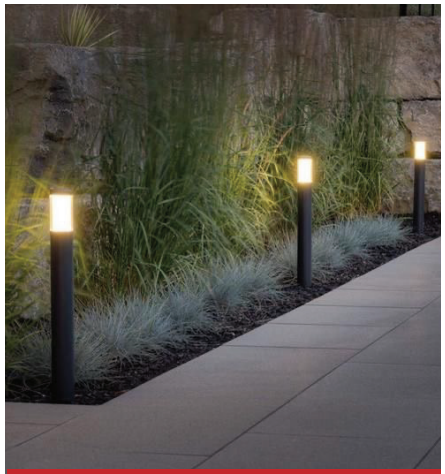
Garden Spikes



Decorative Pole



Up & Down



Bollard Lights

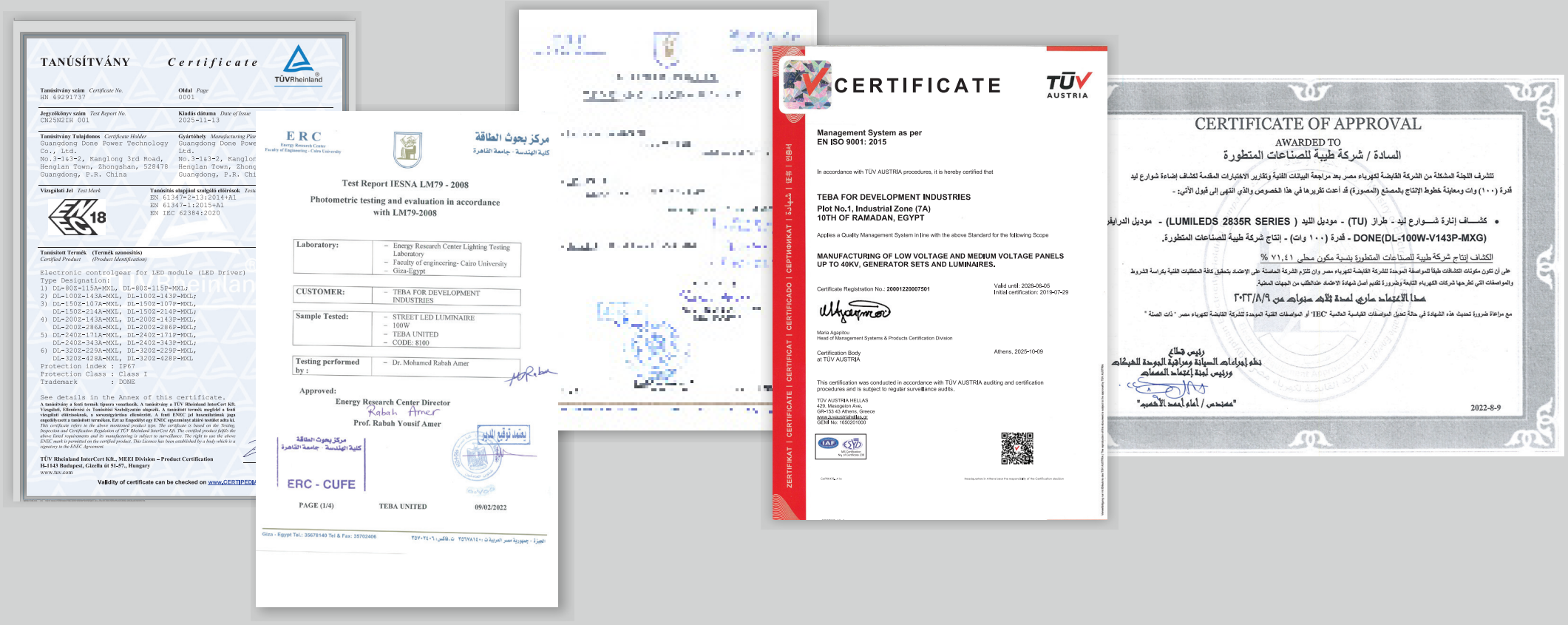


Bulk Head



Certificates





TANÚSÍTVÁNY Certificate

TÜVRheinland

Tanúsítvány szám Certificate No.
HN 69291737

Oldal Page
0001

Jegyzőkönyv szám Test Report No.
CN25N2IH 001

Kiadás dátuma Date of Issue
2025-11-13

Tanúsítvány Tulajdonos Certificate Holder
Guangdong Done Power Technology Co., Ltd.
No.3-1&3-2, Kanglong 3rd Road, Henglan Town, Zhongshan, 528478 Guangdong, P.R. China

Gyártóhely Manufacturing Plan
Guangdong Done Powe Ltd.
No.3-1&3-2, Kanglor Henglan Town, Zhong Guangdong, P.R. Chi

Vizsgálati Jel Test Mark

Tanúsítás alapjául szolgáló előírások Test
EN 61347-2-13:2014+A1
EN 61347-1:2015+A1
EN IEC 62384:2020

Tanúsított Termék (Termék azonosítás)
Certified Product (Product Identification)

Electronic controlgear for LED module (LED Driver)
Type Designation:
1) DL-80Z-115A-MXL, DL-80Z-115P-MXL;
2) DL-100Z-143A-MXL, DL-100Z-143P-MXL;
3) DL-150Z-107A-MXL, DL-150Z-107P-MXL, DL-150Z-214A-MXL, DL-150Z-214P-MXL;
4) DL-200Z-143A-MXL, DL-200Z-143P-MXL, DL-200Z-286A-MXL, DL-200Z-286P-MXL;
5) DL-240Z-171A-MXL, DL-240Z-171P-MXL, DL-240Z-343A-MXL, DL-240Z-343P-MXL;
6) DL-320Z-229A-MXL, DL-320Z-229P-MXL, DL-320Z-428A-MXL, DL-320Z-428P-MXL
Protection Index : IP67
Protection Class : Class I
Trademark : DONE

See details in the Annex of this certificate.

TÜV Rheinland InterCert Kft., MEEI Division – Product Certification
H-1143 Budapest, Gizella út 51-57., Hungary
www.tuv.com

Validity of certificate can be checked on www.CERTIPED/

ERC
Energy Research Center
Faculty of Engineering - Cairo University

مركز بحوث الطاقة
كلية الهندسة - جامعة القاهرة

Test Report IESNA LM79 - 2008
Photometric testing and evaluation in accordance with LM79-2008

Laboratory:	– Energy Research Center Lighting Testing Laboratory – Faculty of engineering- Cairo University – Giza-Egypt
CUSTOMER:	– TEBA FOR DEVELOPMENT INDUSTRIES
Sample Tested:	– STREET LED LUMINAIRE – 100W – TEBA UNITED – CODE: 8100
Testing performed by :	– Dr. Mohamed Rabah Amer

Approved:
Energy Research Center Director
Rabah Amer
Prof. Rabah Yousif Amer

مركز بحوث الطاقة
كلية الهندسة جامعة القاهرة
ERC - CUFE

PAGE (1/4) TEBA UNITED 09/02/2022

Giza - Egypt Tel.: 35678140 Tel & Fax: 35702406

CERTIFICATE

TÜV AUSTRIA

ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | СЕРТИФИКАТ | شهادة | 证书

Management System as per
EN ISO 9001: 2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

TEBA FOR DEVELOPMENT INDUSTRIES
Plot No.1, Industrial Zone (7A)
10TH OF RAMADAN, EGYPT

Applies a Quality Management System in line with the above Standard for the following Scope

MANUFACTURING OF LOW VOLTAGE AND MEDIUM VOLTAGE PANELS UP TO 40KV, GENERATOR SETS AND LUMINAIRES.

Certificate Registration No.: 20001220007501

Valid until: 2028-06-05
Initial certification: 2019-07-29

Maria Agapitou
Head of Management Systems & Products Certification Division

Certification Body
at TÜV AUSTRIA

Athens, 2025-10-09

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
429, Mesogeion Ave.,
GR-153 43 Athens, Greece
www.tuvaustriahellas.gr
GEMI No: 1650201000

CERTIFICATE OF APPROVAL

AWARDED TO
السادة / شركة طيبة للصناعات المتطورة

تتشرف اللجنة المشكلة من الشركة القابضة لكهرباء مصر بعد مراجعة البيانات الفنية وتقارير الاختبارات المقدمة لكشاف إضاءة شوارع ليد قدرة (١٠٠) وات ومعاينة خطوط الإنتاج بالمصنع (المصورة) قد أعدت تقريرها في هذا الخصوص والذي انتهى إلى قبول الآتي: -

- كشـــاف إنارة شـــوارع ليد - طراز (TU) - موديل الليد (LUMILEDS 2835R SERIES) - موديل الدرايف
DONE(DL-100W-V143P-MXG) - قدرة (١٠٠ وات) - إنتاج شركة طيبة للصناعات المتطورة.

الكشاف إنتاج شركة طيبة للصناعات المتطورة بنسبة مكون محلي ٧١,٤١ %

على أن تكون مكونات الكشافات طبقاً للمواصفة الموحدة للشركة القابضة لكهرباء مصر وان تلتزم الشركة الحاصلة على الاعتماد بتحقيق كافة المتطلبات الفنية بكراسة الشروط والمواصفات التي تطرحها شركات الكهرباء التابعة وضرورة تقديم أصل شهادة الاعتماد خلال الطلب من الجهات المعنية

صدر الاعتماد ساري لمدة ثلاث سنوات من ٢٠٢٢/٨/٩

مع مراعاة ضرورة تحديث هذه الشهادة في حالة تعديل المواصفات القياسية العالمية 'IEC' أو المواصفات الفنية الموحدة لشركة القابضة لكهرباء مصر ' ذات الصلة '

رئيس قطاع
نظم إجراءات السلامة ومراقبة الجودة للهيئات
ورئيس لجنة إعتماد المصانع

"ممدوح / أمام أحمد الأشمير"

2022-8-9

www.tu-egy.com

Earthing & Lightning Protection System





Earthing & Lightning Protection System

TEBA UNITED stands as Egypt's premier dedicated provider and manufacturer of specialized Earthing and Lightning protection solutions. Renowned within the industry, the company exceeds standard expectations to fulfill the specific needs of the Egyptian market with tailored Grounding and Lightning Protection Systems and Solutions.

Earthing System Accessories

TEBA UNITED offers an extensive range of high-quality Earthing (Grounding) Accessories, as well as comprehensive systems designed to safeguard against electrical potential. The available solutions encompass the following components:

- Earthing Rods
- Rod Clamps
- Earthing Bars
- Inspection Pits
- Enhancement Materials
- Exothermic Welding

Lightning System Accessories

TEBA UNITED manufactures complete Lightning Protection Systems along with accessories that enhance any organization's lightning protection and response capabilities. The following solutions are included:

- Air Terminals
- Terminal Bases
- Conductor Networks
- Clamps and Clips
- Early Streamers Devices

Our Capabilities

As a specialist contractor in Earthing and Lightning Protection Systems, **TEBA UNITED** provides comprehensive solutions for various project types, which include but are not limited to:

- Risk Assessment Studies
- Full Systems Designs
- Systems Calculations
- Materials Supply
- Installation Process
- Testing and Commissioning

Compliance:

TEBA UNITED's Earthign and lightning Protection system adheres to the following industry specifications and standards

UL 467	BS 7430: 2011+Al:2015	IEC 62561-1: 2012	NFC 17-102	ISO/IEC 17025:2005

BRANDS Introduction

With over 15 years of experience, **TEBA UNITED** delivers Leading Earthing and Lightning Protection products and services to the Egyptian market. Through manufactured products, system design, and installation processes, the company strives for optimal total solutions emphasizing efficiency, quality, and cost control. TU Earthing and Lightning Protection Systems are among the first Egyptian brands in this field, built upon extensive experience gained from collaboration with international manufacturers over the past 15 years.

TEBA
EARTHING & LIGHTNING
PROTECTION SYSTEMS

Why Choose TU?

Products

The extensive experience of our manufacturing team allows us to achieve superior quality in our products, aligning with international standards and best practices.

Knowledge

Our comprehensive understanding of the most current international standards enables us to deliver optimal solutions that comply with the latest IEC, BS, NFPA, NFC, and NEC norms.

Expertise

Our technical team provides specialist advice with a focus on quality, efficiency, value-engineering, and cost-effectiveness.

Customer Service

Our technical support and sales teams are committed to addressing all Earthing and Lightning Protection needs.

BRANDS Introduction

TEBA United serves as the sole agent for AMPER in Egypt

AMPER is recognized as a leader in the lightning protection and earthing sectors, boasting over 50 years of experience and a reputation for high-quality services and professionalism. Our joint venture in Egypt has secured a significant market share, emphasizing efficiency, quality, and cost control

AMPER is devoted to meeting the needs of both domestic and foreign institutions within the Lightning Protection and Grounding Industries, adhering to national and international standards. True to its core values, **AMPER** continuously showcases industry leadership, demonstrating the dynamism and enthusiasm that have characterized the company since its inception. We consistently provide optimal solutions to meet customer requirements through a diverse range of products and by distributing leading global brands.



TEBA UNITED manufactures a proprietary line of Earthing and Lightning Protection Systems, including the TU Earthing and Lightning Protection System and **AMPER** products. The company ensures its offering meets various specifications to address all market demands. **TEBA UNITED** proudly serves as a distributor for notable brands such as **HARGER**, a recognized leader in the industry. This collaboration allows **TEBA UNITED** to effectively meet the diverse needs of the field , established itself as a leading manufacture and supplier of earthing materials and lightning protection products for international markets.

Product Range



Copper Bonded Earthing Rods
When installed at significant depths, typically offer the most economical earthing solution.
Copper Bonding: Minimum thickness of 250 microns
Material Composition: Copper with a purity of 99.99%
Mechanical Strength: Minimum tensile strength of 600 N/mm²
Compliance Standards: BS EN 62561-2, BS 7430





CLAMPS:
These components are specifically engineered to connect various sizes of cables to earth electrodes.

Material: High-strength copper alloy
Standards: BS EN 62561-1, BS 7430



Coupling:
They are of adequate length and feature counter-boring to ensure that the earth rod threads are fully enclosed.
Material: High copper content alloy, composed of bronze (Cu + Sn + Al + Zn).
Standard: Compliance with BS EN 62561 and BS 7430.



Pits:
They are suitable for a load rating of 4,500Kg and suitable for most types of earthing and lightning protection installations
Pit dimensions: 300X300X210mm (W x D x H)
Material: Concrete

www.tu-egy.com



Air terminals:
Are designed for compatibility with either the standard air terminal base, the multi-purpose base, or the side-mounted brackets.
Material: Copper with 99.99% purity
Standard: BS EN 62561-2



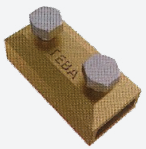
Square DC Clamps:
Are designed to facilitate the interconnection of crossing tapes, straight-through joints, or "T" connections, thereby establishing a continuous network of tapes.
Material: Bronze alloys
Standard: BS EN 62561-1



Driving studs:
They are made of high strength to withstand repeated use with power hammers.
Material: High-strength steel



Early Streamer Devices:
Used as a complete solution for protecting against lightning strikes
Material: Stainless Steel Standard: NF C 17-102



Test clamps:
Are designed to join conductor tape to facilitate the annual testing.
Material: (Cu + Tin + Al + Zn)
Standard: BS EN 62561-1, class H



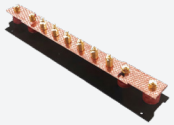
Air terminal bases
Are designed to be used with the air terminals and elevation rods
Material: (Cu + Tin + Al + Zn)
Standard: BS EN 62561-1, CLASS H Bolt M10



Graphite Mould:
The conductors are arranged for welding at an approximate temperature of 1000°C.
Material: Graphite
Density: 1.92 gm/cm3



Copper tape / bar
Material: Copper with 99.8% purity
Coil: 25mt - 50 mt

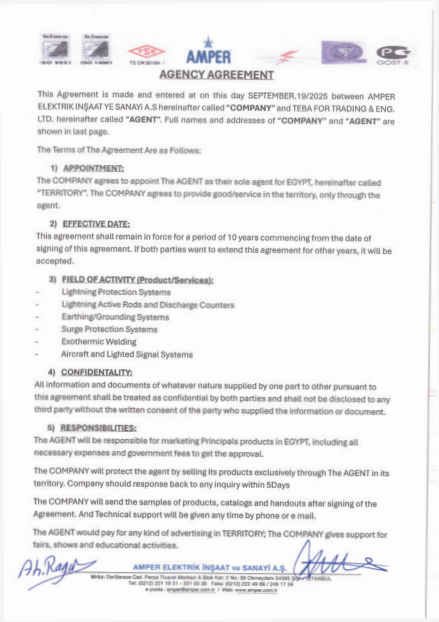


Earthing bars:
Material: Copper with 99.99% purity



Ground enhancement materials

Certificates



AMPER

AGENCY AGREEMENT

This Agreement is made and entered at on this day SEPTEMBER,19/2025 between AMPER ELEKTRIK INŞAAT YE SANAYI A.S hereinafter called "COMPANY" and TEBA FOR TRADING & ENG. LTD. hereinafter called "AGENT". Full names and addresses of "COMPANY" and "AGENT" are shown in last page.

The Terms of The Agreement Are as Follows:

1) APPOINTMENT:
The COMPANY agrees to appoint The AGENT as their sole agent for EGYPT, hereinafter called "TERRITORY". The COMPANY agrees to provide good/service in the territory, only through the agent.

2) EFFECTIVE DATE:
This agreement shall remain in force for a period of 10 years commencing from the date of signing of this agreement. If both parties want to extend this agreement for other years, it will be accepted.

3) FIELD OF ACTIVITY (Product/Services):
- Lightning Protection Systems
- Lightning Active Rods and Discharge Counters
- Earthing/Grounding Systems
- Surge Protection Systems
- Exothermic Welding
- Aircraft and Lighted Signal Systems

4) CONFIDENTALITY:
All information and documents of whatever nature supplied by one part to other pursuant to this agreement shall be treated as confidential by both parties and shall not be disclosed to any third party without the written consent of the party who supplied the information or document.

5) RESPONSIBILITIES:
The AGENT will be responsible for marketing Principals products in EGYPT, including all necessary expenses and government fees to get the approval.

The COMPANY will protect the agent by selling its products exclusively through The AGENT in its territory. Company should response back to any inquiry within 5Days

The COMPANY will send the samples of products, catalogs and handouts after signing of the Agreement. And Technical support will be given any time by phone or e mail.

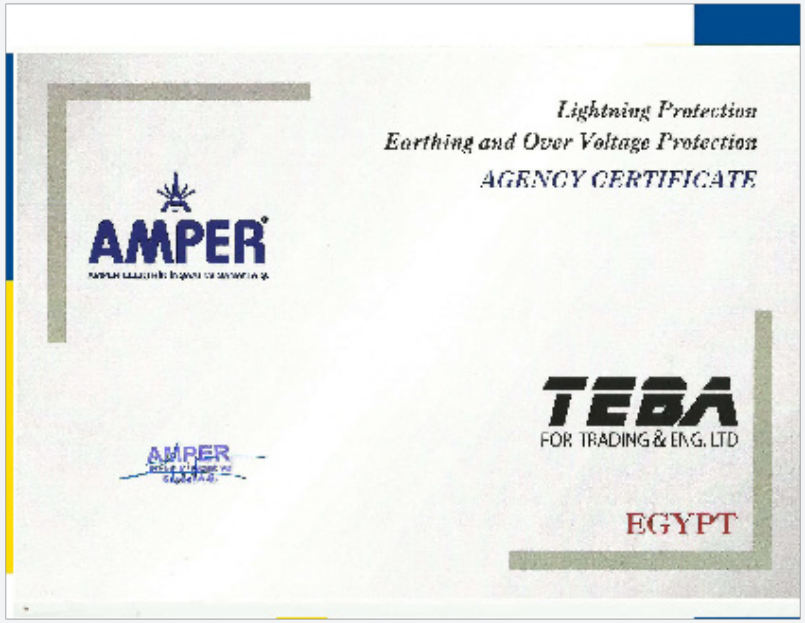
The AGENT would pay for any kind of advertising in TERRITORY; The COMPANY gives support for fairs, shows and educational activities.

AMPER ELEKTRİK İNŞAAT ve SANAYİ A.Ş.



ISOQAR

Certificate of Registration



Lightning Protection
Earthing and Over Voltage Protection
AGENCY CERTIFICATE

AMPER

TEBA
FOR TRADING & ENG. LTD

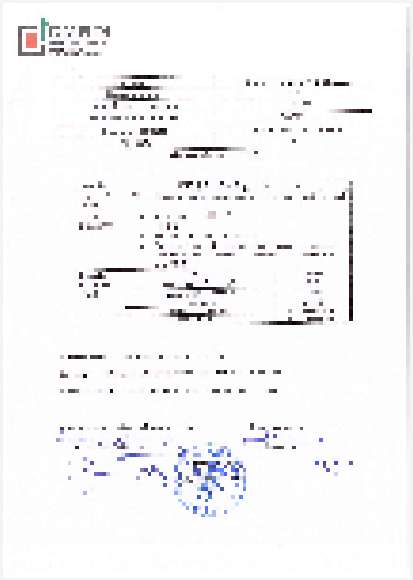
EGYPT





TU

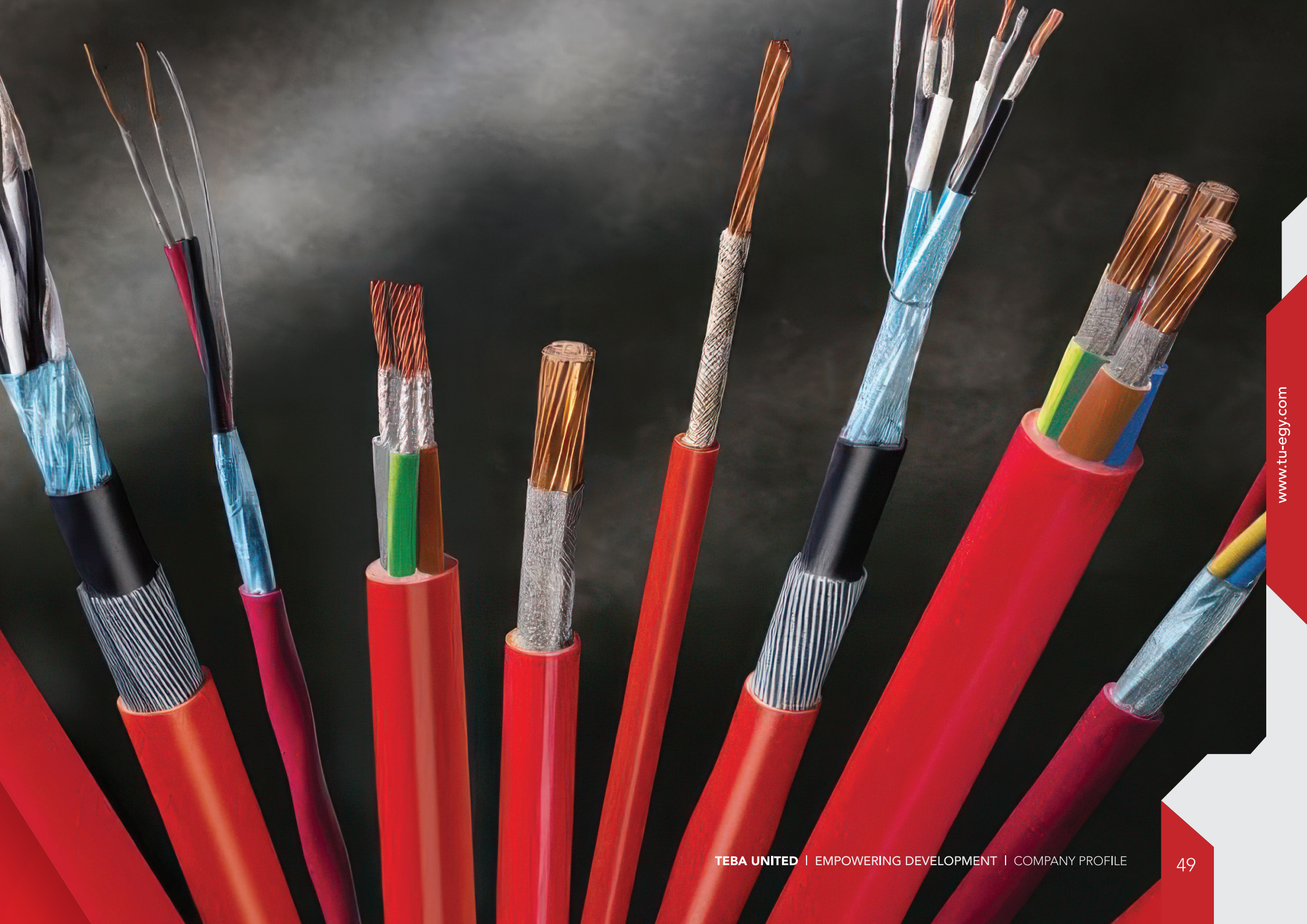
TEBA





Special **Cables**





Special Cables

TEBA UNITED serves as the exclusive partner for **ITALCOND**, a distinguished manufacturer of premium special cables originating from Italy. Located in Recanati, Italy, **ITALCOND SRL** is recognized as a leading producer of high-performance specialized cables that comply with stringent quality standards. The company is celebrated for its innovation and commitment to excellence, seamlessly integrating technical expertise with strong logistics to effectively meet the needs of clients both domestically and internationally.

As the **Exclusive Agent for ITALCOND** in our region, **TEBA UNITED** offers a diverse array of reliable Italian-made cables tailored for various industries.

Our Product Range Includes:-

- Fire Resistance Cables (Compliant with fire-resistance and high-temperature standards)
- Fire Alarm System Cables (Rated for 105°C, overall shielded for critical systems)
- Sound & Control Cables (Overall shielded for clear audio and control signal transmission)
- Coaxial Cable RG6 (75 Ohm, optimized for CATV)
- Telephone Cables (Twisted Pair, unshielded for dependable communication)
- BUS Cables (KNX/EIB, designed for building automation)
- Network Cables (Available in both unshielded and shielded varieties for data networks)
- PROFIBUS Cables (L2/F1P 150 Ohm, designed for Factory Instrumentation Protocol)
- Solar DC Cables (H1Z2Z2-K, flexible single-core halogen-free cable for photovoltaic system)
- Musical Instrument Cables (Balanced microphone cables featuring an overall aluminum polyester tape shield)

cert. no. 377/12801/16

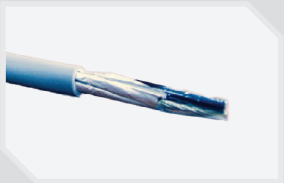
TU Product Range



Fire resistance cables



Fire alarm cables



Sound & control cables



Coaxial cables



Telephone cables



Bus Cables



Musical Cables



PROFIBUS Cables



Solar DC Cables

www.tu-egy.com

Fire Alarm & Fire Suppression (FM 200)

Made in USA, UL/FM





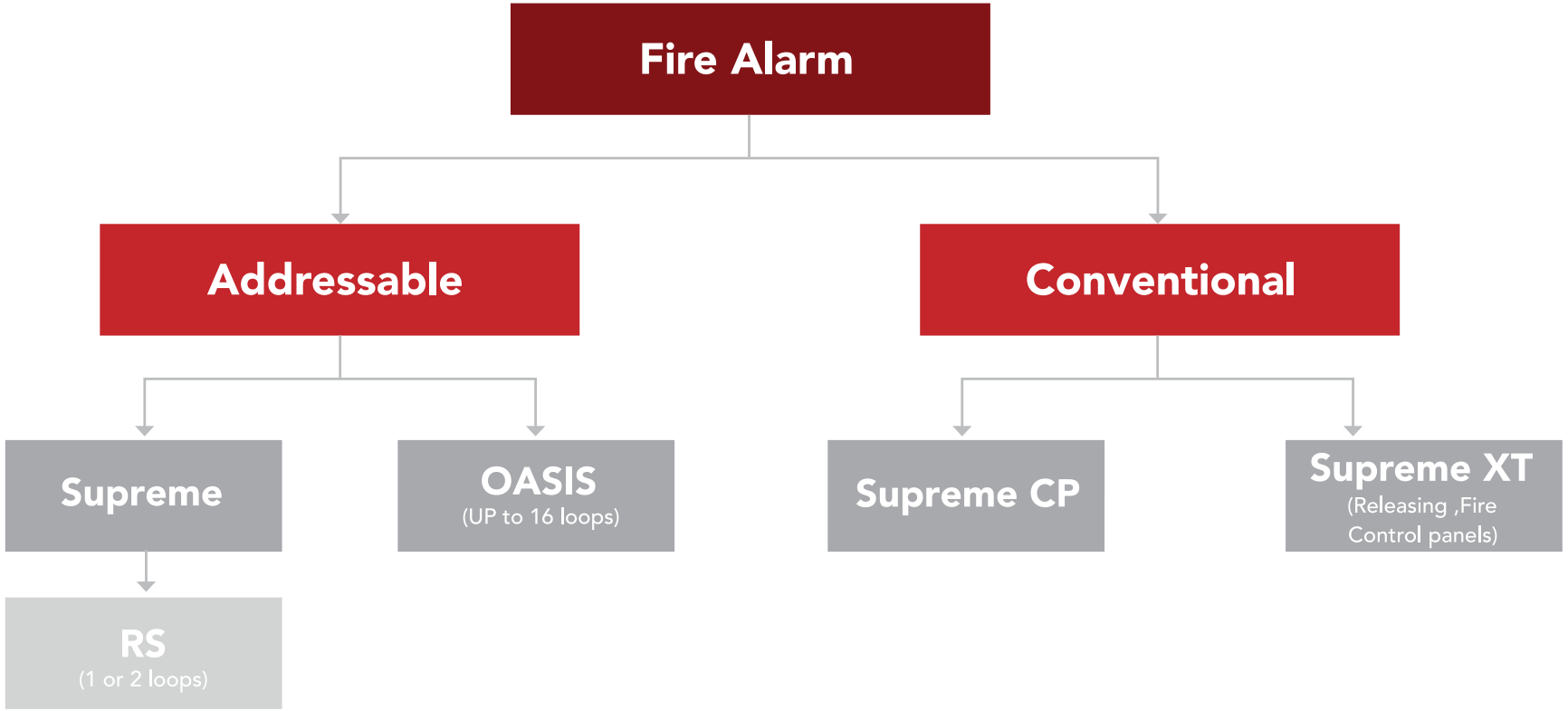
www.tu-egy.com

Fire Alarm

The importance of investing in appropriate safety measures cannot be overstated. In partnership with Avenger System, **TEBA UNITED** delivers state-of-the-art fire detection and protection systems to the Egyptian market

TEBA UNITED acts as the sole agent for Avenger products in Egypt.

Avenger System is an independently owned company specializing in fire detection and suppression, with operations spanning numerous regions globally. We provide an array of fire protection setups, advanced technologies, and more.



Fire Alarm Panel Features



OASIS

FIRE ALARM CONTROL PANELS

- 2 to 16 Loop
- Hochiki Protocol
- Modular design
- Networking capability for decentralized installations (up to 127 nodes)
- Fiber optic communication supported with a distance up to 40KM between 2 consecutive nodes
- Full Color 7" Touch Screen
- Metallic Construction



SUPREME-RS

FIRE ALARM CONTROL PANELS

- 1 / 2 Loop
- Hochiki Protocol
- 8 x 40 characters LCD display
- Cause and Effects Logics including AND, OR,
- COINCIDENCE – Up to 500 Network Wide
- Up to 1,000 entry event log
- Non Volatile Memory
- Networking capability for decentralized
- Installations (up to 64 nodes)
- 3 on-board relays

Fire Alarm Features

ADDRESSABLE DETECTOR RANGE



AS2010-00
HEAT DETECTOR

- Fixed temperature / Rate of Rise 2 in 1 detector
- Programmable Day and Night operation modes
- Programmable threshold Temperature



AS2011-00
SMOKE DETECTOR

- Programmable day and night sensitivity settings
- Flat response technology
- Daily calibration for sensor contamination



AS2012-00
MULTI-CRITERIA DETECTOR
SMOKE / HEAT

- Programmable threshold Temperature
- Programmable day and night sensitivity settings
- Flat response technology
- Daily calibration for sensor contamination



AS2014-00
MULTI-CRITERIA DETECTOR
SMOKE / HEAT / CO / COHB

- 16 UL Listed modes of operation
- RFA feature - Great resistance to unwanted alarms
- Programmable sensitivity settings
- CO Alarm and Fire Alarm analyzed separately

www.tu-egy.com

AS2042-00 / AS2043-00 / AS2044-00

CONVENTIONAL PHOTOELECTRIC SMOKE DETECTORS



Standard Features

- UL Listed
- Computer-designed non-directional smoke chamber
- 360° view of detector status LED
- Low Profile, 2" high (with base)
- 2 or 4 wire base compatibility.
- Highly stable operation, RF/Transient protection
- Low standby current, 59µA at 24VDC
- One built-in power/sensitivity supervision/alarm LED
- Automatic Sensitivity window verification function meets outlined requirements in NFPA 72, Chapters 2 and 7, Inspection, Testing, and Maintenance



Standard Features

- CHoice of fixed temperature / rate-of-rise:
- 135°F (AS2020-00) or 190°F (AS2021-00) heat detector
- UL Listed spacing up to 60' by 60'
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation, RF/Transient protection
- Low standby current, 35µA nominal
- Two built-in power/alarm LEDs for 360° viewing
- Fully electronic operation
- Power/araem LEDs confirm detector staus

Fire Alarm Features

PULL STATION RANGE



SINGLE ACTION WITH HEX OR KEY FOR INDOOR USE



DUAL ACTION WITH KEY FOR INDOOR USE



RELEASING APPLICATIONS PULL STATIONS



WEATHERPROOF SINGLE OR DUAL ACTION FOR OUTDOOR USE

All the above models are available for addressable and conventional systems



SUPREME-XT

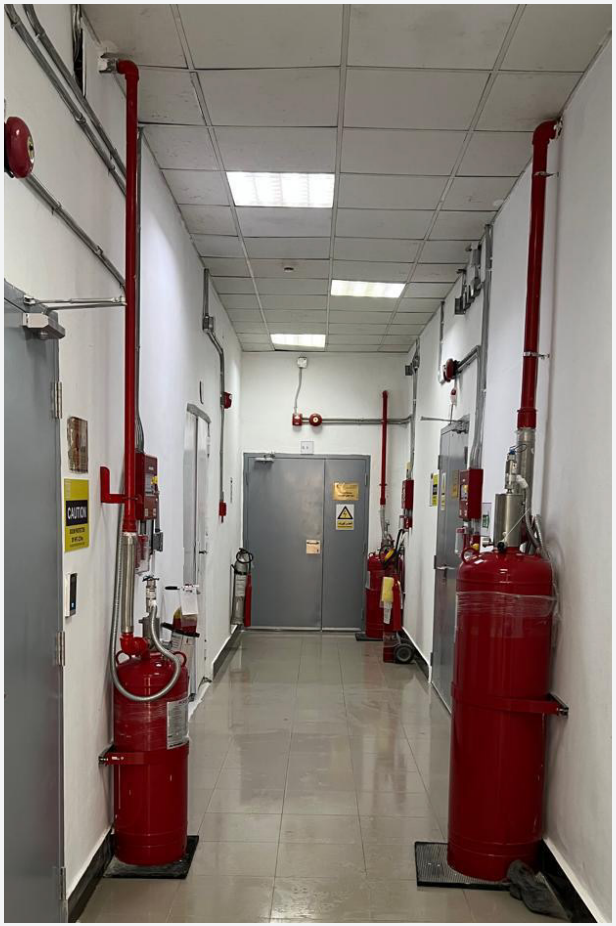
Releasing Fire Control Panel

Standard Features

- UL 864 Listed
- Configurable first stage NAC delays
- Zero time delay upon manual release option
- Non-latching zone input option to receive signals from other systems such as aspirating equipment
- Configurable releasing delays up to 60 seconds in 5 second steps
- Countdown timer shows time remaining until release
- Any single zone or any combinations of zones can be configured to release
- Compatible with conventional detectors from Avenger Systems, Apollo, Hochiki America, and System Sensor
- Three detection zones as standard
- Configurable detection delays
- Supports up to seven, four wire status indicators
- Built in Extract Fan control

MADE IN BRITAIN

Clean Agent Fire Suppression System



AVENGER 227

- Safe for occupied areas
- Zero ODP and low GWP
- Extinguishes class A,B & C fires quickly and effectively
- Non - conductive, clean agent & leaves no residue

AVENGER 5112

- One of the fastest & cleanest extinguishing agents protect irreplaceable documents & electronics
- Provides the highest margin of safety for humans under NFPA 2001

UL FM APPROVED

Certificates



CERTIFICATE OF COMPLIANCE

Certificate Number S35689
Report Reference S35689-20190626
Issue Date 2020-APRIL-09

Issued to: AVENGER SYSTEMS LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This certificate confirms that representative samples of CONTROL UNITS, SYSTEM
See Addendum Page

Have been investigated by UL in acco
Standard(s) indicated on this Certificat

Standard(s) for Safety: UL864 - Control Units and Accessories Systems
Additional Information: See the UL Online Certifications Direc https://iq.ulprospector.com for additio

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certifie Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number S35689
Report Reference S35689-20190626
Issue Date 2020-APRIL-09

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Control Unit; OA followed by 1, 2, 3, 4, 7, 8, 9 or A, followed by 0, 1, 2 or 3, followed by 0, 1, 2 or 3, followed by 00 or H, I, J, or K, followed by 1 through 8, followed by 1, 4 or 6, followed by 0, 1, 3, 4, 5, 6 or 7, and may be optionally followed by 0 and 1 through 8

Subassembly: S406, S408, S723, S758, S769, S770, S771, S788, S791

Page 2 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number 20161201-S35689
Report Reference S35689-20160211
Issue Date 2016-DECEMBER-1

Issued to: AVENGER SYSTEMS LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This is to certify that representative samples of CONTROL UNITS, SYSTEM
AS0810-10, AS0810-40, AS08 10, AS0815-40, AS0816-10, A AS0836-40, AS0817-10, AS08 40, AS0825-10, AS0825-40, A AS0827-10, AS0827-40

Have been investigated by UL Standard(s) indicated on this C

tandard(s) for Safety: UL 864 - Control Units and Acc Systems
dditional Information: See the UL Online Certificatior www.ul.com/database for addi

products bearing the UL Certification Mark should be considerec and Follow-Up Service.

UL Certification Mark on the product.

CERTIFICATE OF COMPLIANCE

Certificate Number 20161201-S35689
Report Reference S35689-20160209
Issue Date 2016-DECEMBER-1

Issued to: AVENGER SYSTEMS LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This is to certify that representative samples of CONTROL UNITS, SYSTEM
AS1170-00, AS1171-00, AS1420-1 [+], AS1420-4 [+], AS1423-1 [+], AS1423-4 [+], AS1425-1 [+], AS1425-4 [+], AS1440-1 [+], AS1440-4 [+], AS1443-1 [+], AS1443-4 [+], AS1445-1 [+], AS1445-4 [+]

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 864 - Control Units and Accessories for Fire Alarm Systems
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Page 1 of 1

CERTIFICATE OF COMPLIANCE

Certificate Number 20161201-S35689
Report Reference S35689-20160602
Issue Date 2016-DECEMBER-1

Issued to: AVENGER SYSTEMS LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This is to certify that representative samples of CONTROL UNITS, SYSTEM
See Addendum Page

Have been investigated by UL in acc Standard(s) indicated on this Certific

Standard(s) for Safety: UL864 - Control Units and Accessori Systems
Additional Information: See the UL Online Certifications Dire www.ul.com/database for additional

ly those products bearing the UL Certification Mark should be considered as bei rtification and Follow-Up Service.

ok for the UL Certification Mark on the product.

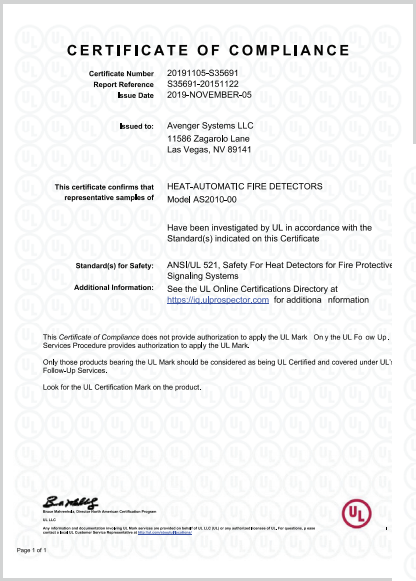
CERTIFICATE OF COMPLIANCE

Certificate Number 20161201-S35689
Report Reference S35689-20160602
Issue Date 2016-DECEMBER-1

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

AS1810-10, AS1810-11, AS1810-40, AS1810-41, AS1822-00, AS0613-10, AS0613-40, AS0511-10, AS0511-40, AS0607-10, AS0607-40, AS1842-10, AS1842-11, AS1842-40, AS1842-41, AS1844-10, AS1844-11, AS1844-40, AS1844-41, AS1848-10, AS1848-11, AS1849-40, AS1848-41, AS1852-10, AS1852-11, AS1852-40, AS1852-41, AS1854-10, AS1854-11, AS1854-40, AS1854-41, AS1858-10, AS1858-11, AS1858-40, AS1858-41, AS1850-00

Page 2 of 2



CERTIFICATE OF COMPLIANCE

Certificate Number 20191105-S35691
Report Reference S35691-20151122
Issue Date 2019-NOVEMBER-05

Issued to: Avenger Systems LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This certificate confirms that representative samples of HEAT-AUTOMATIC FIRE DETECTORS
Model AS2010-00

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate

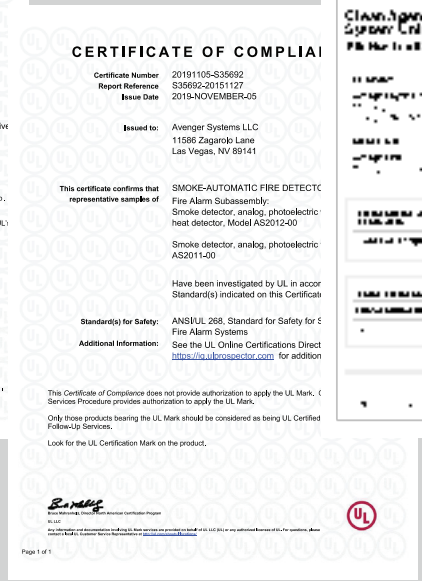
Standard(s) for Safety: ANSI/UL 521, Safety For Heat Detectors for Fire Protective Signaling Systems
Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additiona nformation

This *Certificate of Compliance* does not provide authorization to apply the UL Mark . On y the UL Fo ow Up . Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL' Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1 of 1



CERTIFICATE OF COMPLIAI

Certificate Number 20191105-S35692
Report Reference S35692-20151127
Issue Date 2019-NOVEMBER-05

Issued to: Avenger Systems LLC
11586 Zagarolo Lane
Las Vegas, NV 89141

This certificate confirms that representative samples of SMOKE-AUTOMATIC FIRE DETECTC
Fire Alarm Subassembly:
Smoke detector, analog, photoelectric heat detector, Model AS2012-00

Smoke detector, analog, photoelectric AS2011-00

Have been investigated by UL in accor Standard(s) indicated on this Certificat

Standard(s) for Safety: ANSI/UL 268, Standard for Safety for S Fire Alarm Systems
Additional Information: See the UL Online Certifications Direct https://iq.ulprospector.com for addition

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. (Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1 of 1



UL Product iQ

Clean Agents for Fire Extinguishing and Extinguishing System Units - Component



FM APPROVED

Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Trade Name:	Avenger 227
Chemical Identification:	1,1,1,2,3,3,3 -Heptafluoropropane
Designation:	HFC -227ea
Minimum Extinguishing Concentrations:	Class A - 5.8 %
	Class B - 6.7 %

Approval Guide Listing Category: Fire Protection, Fixed Extinguishing Systems, Clean Extinguishing Agents

Avenger Systems LLC
11586 Zagarolo Lane
Las Vegas , NV, 89141

This certifies that the equipment described has been found to comply with the applicable requirements, as s tated in the Approval Report(s), of the following FM Approval Standard (s) :

Approval Standards
Class Number Date
5600 August 2018

FM Approvals Listing Class: 5613

Project Identification: PR45 9225 Approval Granted : 5 March 2021
Subsequent Revisions: None

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approvals
Member of the FM Global Group

Jose E. Marquedant
VP, Manager - Electrical Systems
FM Approvals
1151 Boston - Providence Turnpike,
Norwood MA, 02062 USA

5 March 2021
Date

Page 1 of 1 Cert_No. PR45 9225-4



FM APPROVED

Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following Fire Alarm equipment:

Equipment Model Designation(s): **Oasis Analog Addressable Fire Alarm Control Panel**

Approval Guide Listing: Category: see additional pages

Avenger Systems
11586 Zagarolo Lane
Las Vegas, NV 89141
USA

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

Approval Standards		*Other Standards*	
Class Number	*Date*	*Organization, Designation*	*Date*
3010	2018		

Original Approval Job Identification: PR456818 Approval Granted: December 21, 2020

Related Report:

Subsequent Revisions:

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approvals
Member of the FM Global Group

J.E. Marquedant
VP, Manager - Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

4 January 2021
Date

Page 1 of 6 Cert_No. PR456818

www.tu-egy.com

MACURCO
GAS DETECTION

TEBA UNITED offers a comprehensive solution for **Fire and Gas Detection** . We take pride in our partnership with Macurco, our primary vendor from the United States for Gas Detection Systems. With over 50 years of proven experience in residential, commercial, and industrial gas detection, Macurco complies with the internationally recognized standards for Quality Management Systems (QMS), certified as ISO 9001:2015 and UL.

AimSafety™
Portable Gas Detection Solutions
by Macurco



Portable Gas Detection Solutions

Macurco™
Building & Home Solutions



Building and Home Gas Detection Solutions

TracXP™
Industrial Gas Solutions
by Macurco



Industrial Gas Detection Solutions

AVNa™
Notification Appliances
by Macurco



Audible Visible Notification Appliances

TEBA UNITED is proud to operate as a **System Integrator within Nexans**' extensive product range for **Networks and Accessories**

Nexans or now Aginode, a reputable French company with a remarkable history of over 120 years, is acknowledged as a global leader in sustainable electrification. TEBA UNITED offers a comprehensive selection of system solutions, including:

Copper LAN System

- LANmark-6 U/UTP Cable
- LANmark-6 F/UTP Cable shielded
- LANmark-7 Cable S/FTP CAT7

LAN System Accessories

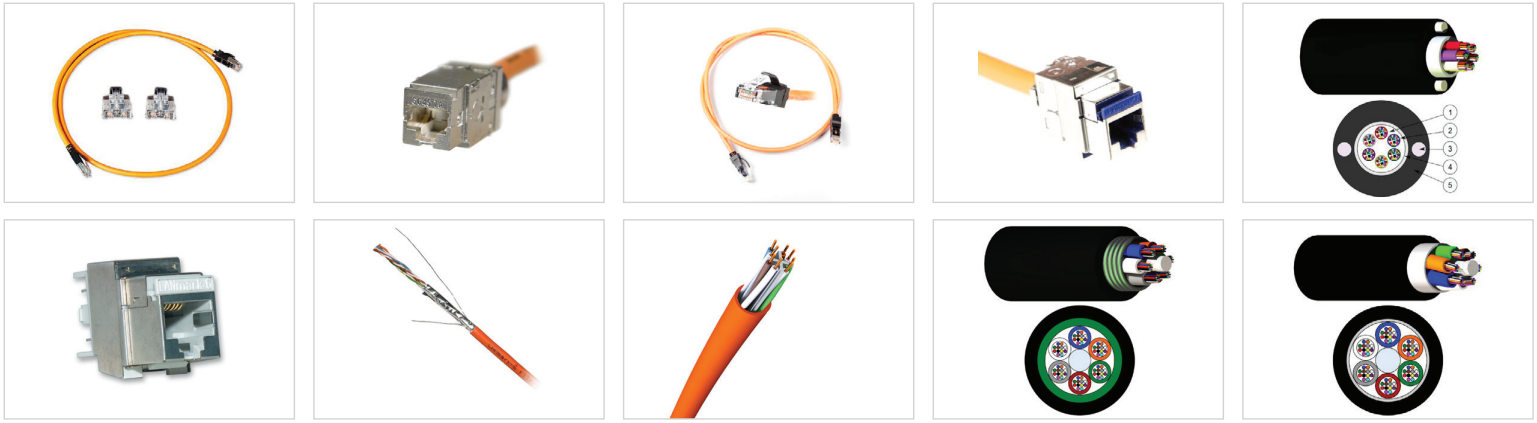
- Patch Panels & Patch Guides
- Connectors
- Patch Cords

Fiber Cables

- Full range of standard compliant multimode cables for LANmark-OF OM3, OM4 and OM5
- Single mode 9/125 OS2 LSZH Eca Black OS2 cables

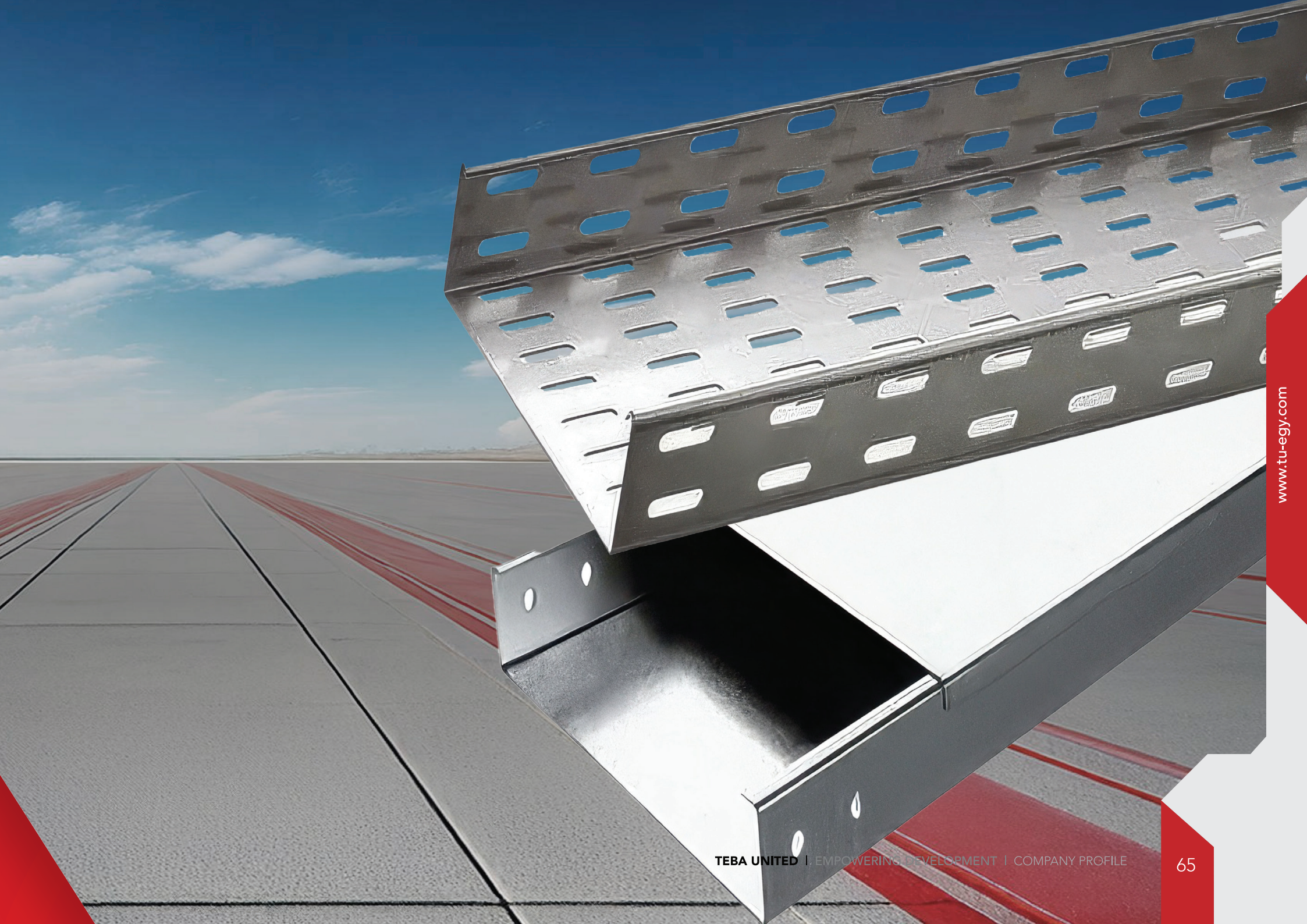
Fiber Accessories

- Fiber Patch Panels
- Patch Cord Fiber SM/MM
- Connectors
- Big Tail and Splicing
- Adapters & Modules for fiber LAN System



Cable
Tray





www.tu-egy.com

Cable Tray System

TEBA United Provides an extensive array of high-quality cable management solutions that are engineered for exceptional performance and durability across variety of applications.

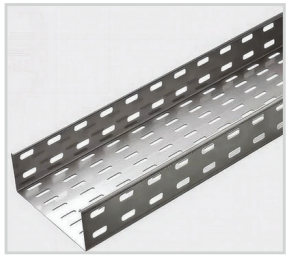
1. Product Range:

The core product range of **TEBA United** includes:

- **Cable Trays:** Customizable systems designed to support and manage large cable bundles while allowing for straightforward installation and future upgrades.
- **Cable Trunks:** Protective enclosures that conceal and organize cables while allowing easy access for maintenance.
- **Cable Ladders:** Support heavy cable loads especially in areas with limited space or where vertical installation is required.







2. Accessories:

- **Connectors:** Horizontal (L90°, L45°, Tee, Cross) and vertical (Faller, Raiser 90°/45°) connectors enable multidirectional routing and elevation changes.
- **Reducers:** Smooth transitions between different tray sizes.
- **Covers:** Provide protection against environmental and physical damage.
- **Adjustable Bends:** Flexible components for custom layout configurations.

2. Materials:

- **Sheet Mild Steel**
- **Aluminum**
- **Stainless Steel**

4. Surface Treatments:

- **Hot-Dip Galvanization**
- **Pre-Galvanized Steel**
- **Electrostatic Coating**
- **Electro-Galvanization**

5. Applications & Value

TEBA United's cable trays combine a modular design for easy installation and future upgrades with material versatility for any environment, delivering long-term cost savings and global-standard reliability.

Deployed across industrial plants, commercial buildings, and large-scale infrastructure (airports, highways, utilities).



www.tu-egy.com

Data Center
& Critical Power Solutions





Product Types

- UPS IST3 1-10kVA Online Tower;
- UPS IST3-J 1-10kVA Online Rack19";
- UPS IST8 1-3kVA Online Rack 19" Lithium;
- UPS AIO ALL in One 10-20kVA - Lithium;
- UPS IST9 10-20kVA Online Rack 19", Flexible configurations;
- UPS IST7 10-40kVA Online Tower, Flexible configurations;
- UPS IST7 60-200kVA Online, Exandable design;
- UPS IST6 30-1200kVA Modular technology.





www.tu-egy.com




BATTERY
CABINET





ORTEA NEXT

Ortea is a leader in the design and manufacture of innovative products and solutions for power quality and energy efficiency.



LV POWER FACTOR CORRECTION

-THDIR% FROM ≤12% TO 100%
-THDIC% FROM ≤50% TO 90%

GIT TRANSFORMER

7KVA TO 2000KVA



VOLTAGE STABILISERS

0,3KVA TO 6000KVA



YUASA, a brand under the Japanese company GS Yuasa Corporation, is a leading manufacturer of lead-acid and lithium-ion batteries. The brand is especially well-known for its high-performance powersports batteries for motorcycles, ATVs, and scooters. They also produce batteries for automotive, industrial, and standby power applications.

- **DC Load Bank:**
  designed to simulate electrical loads and test the performance of DC power sources

- **Battery Charger:**
  industrial and critical applications, battery chargers are vital for maintaining standby battery banks

- **Battery System:**

  Flooded Lead-Acid (VLA)
  VRLA (AGM / GEL)
  Nickel-Cadmium (Ni-Cd)
  Lithium-Ion (Li-ion)
  Lithium Iron Phosphate ($LiFePO_4$)





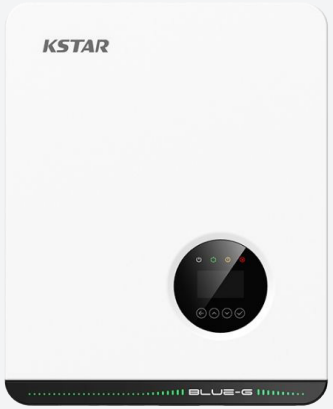
KSTAR

Edge Data Center
IOU Outdoor solutions



PV INVERTER

-1000VA to 200KVA



ENERGY STORAGE SYSTEM

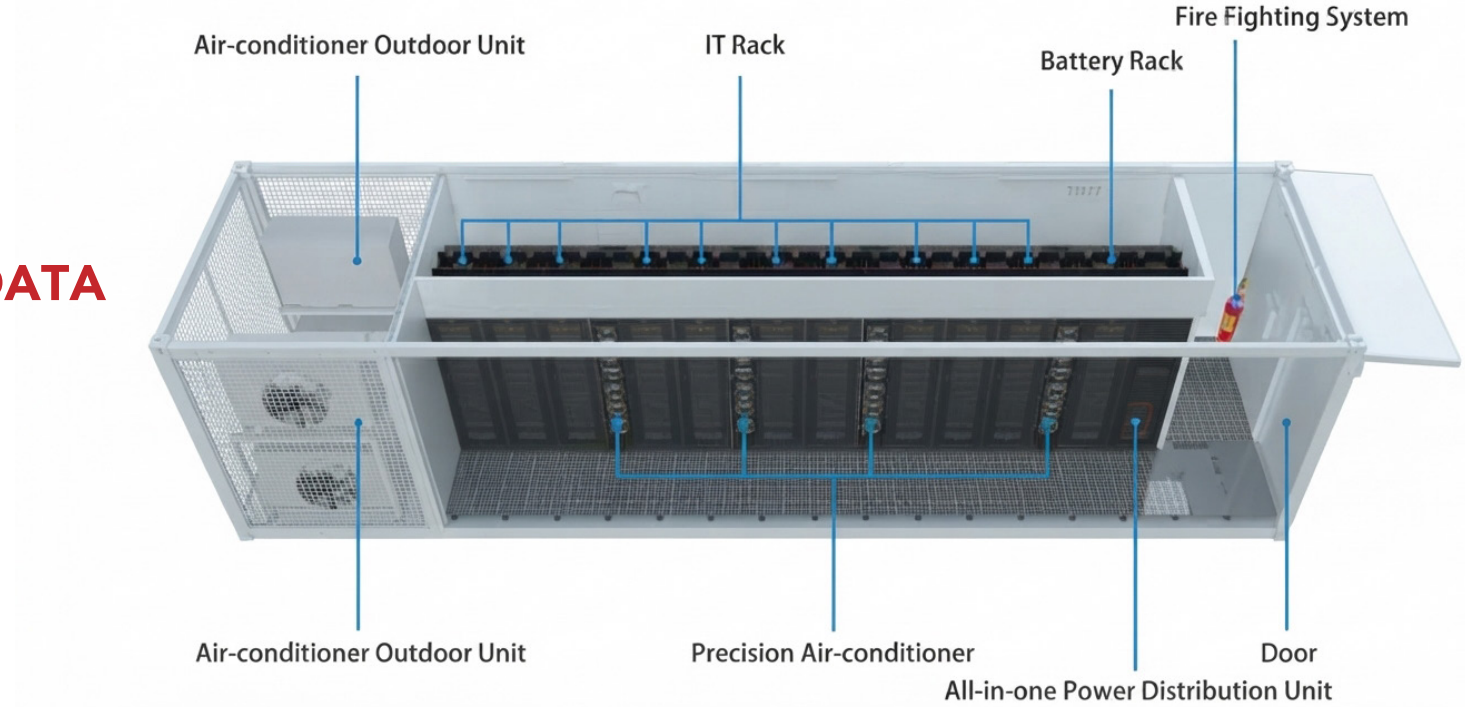
0,3KVA TO 6000KVA



By integrating a UPS, battery, fire-fighting, power panel, and monitor unit in a rack-sized enclosure and reserving available space for IT equipment, Kstar IOU can be used outdoors and save your investment. It also supports power redundancy, continuous cooling, and lithium-ion battery design, which improves the reliability of IT equipment.

CONTAINER DATA CENTER

-20ft TO 40FT



www.tu-egy.com

FocusAir In-Row Cooling 25~70KW

- **Safe, Reliable, and Energy-Saving**

  FocusAir's in-row cooling system is compatible with multiple temperature sensors, monitors heat load changes, and directly controls the supply air temperature

- **Suitable for Racks**

  Dimensions match the cabinet, and it supports top and bottom pipes

- **Real-time Matching with the Load**

  The FocusAir refrigeration system works based on the change of the heat load

- **Redundant Fan Design**

  Replacing the faulty fan without affecting the operation of the cooling system



Available in three widths, 300mm, 400mm and 600mm, capacities from 25 kW to 70 kW and in system formats of air, water, glycol, chilled water and etc.

www.tu-egy.com

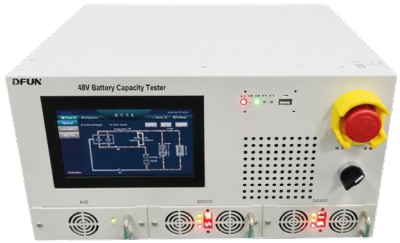
48 Smart Lithium-ion Battery



DFPA48100-S 48V 100 / 165 Ah Smart Lithium-ion Battery

The 48V smart Lithium-ion battery is widely used in backup power in telecommunication applications. A built-in intelligent BMS and DC/DC converter supports boost, buck, and constant power output.

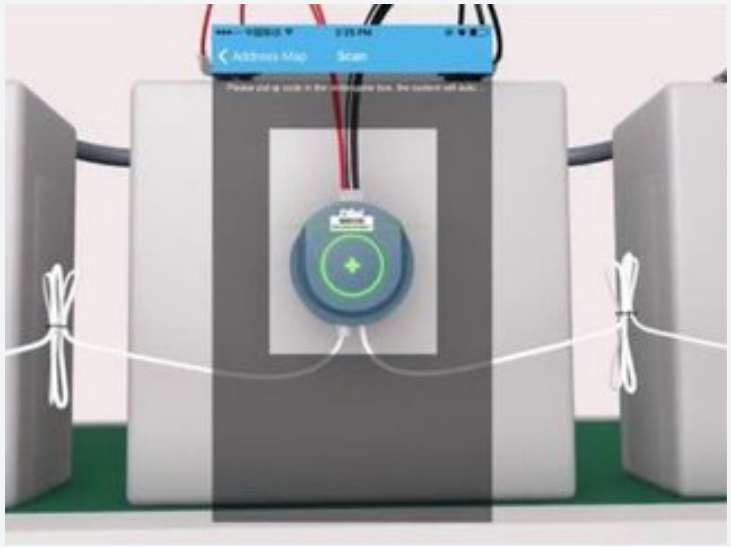
DFCT48 48V Battery Capacity Tester



www.tu-egy.com

Battery Monitoring System

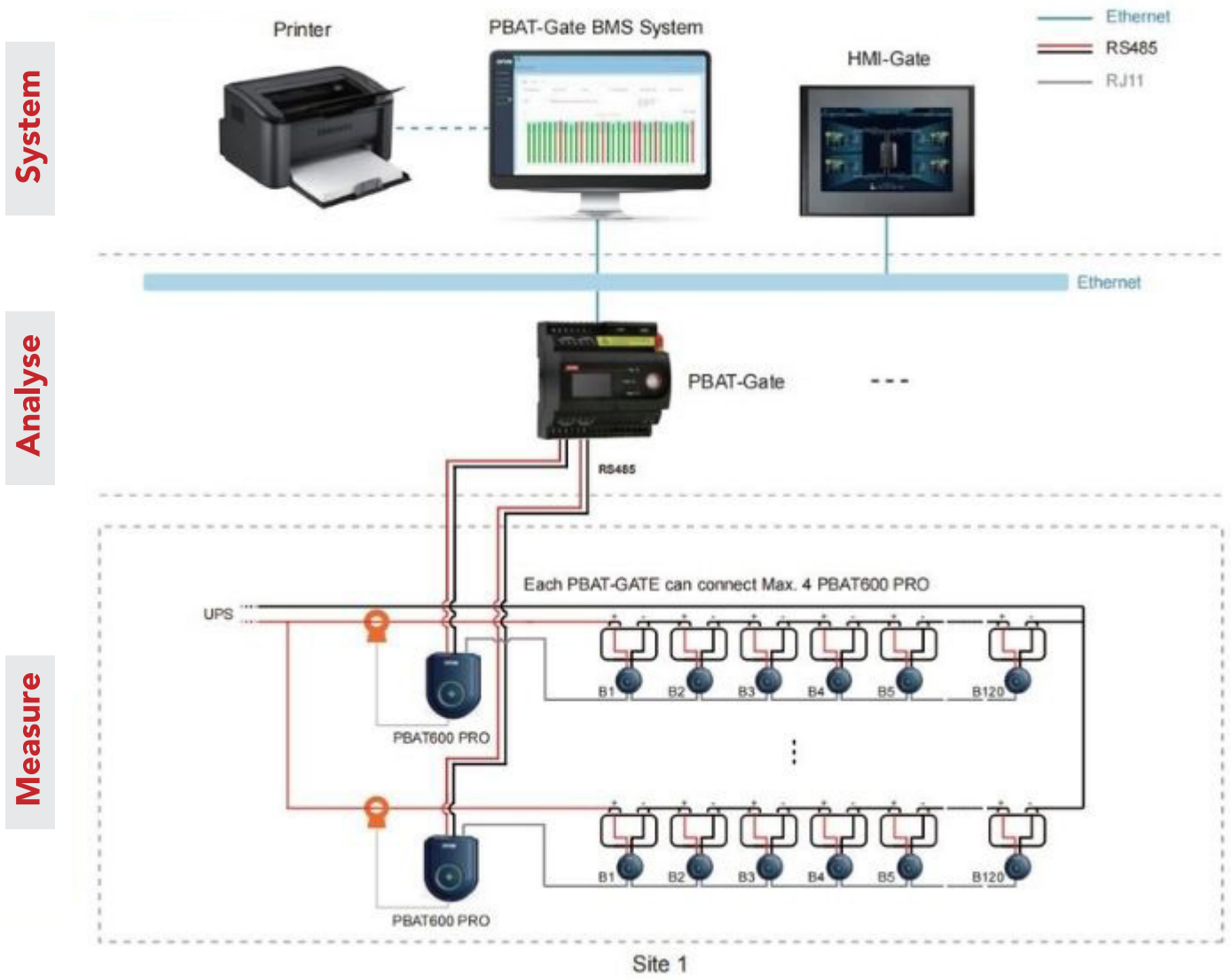
Measures Battery Voltage, Internal Temperature, Impedance, String Voltage & Current, etc





www.tu-egy.com

System Structure:



Hannibal
Power and Technology

Modular Rectifier SDM SERIES



- Voltage Drop Diode Unit.
- Digital or analog voltage and current meters.
- Internal cabinet lighting.
- Door open sensor.
- Heating resistance to avoid condensation.
- Earth leakage current sensor (positive and negative).
- Removing input neutral at the site.
- Fusible Surge Suppression (AC/DC).
- Redundant Fans.
- Cabinet color can be chosen from RAL codes.
- Cable Entry (Top/side/bottom/rear).
- Ingress Protection: up to IP66.
- RS485, TCP, SNMP, and GSM
- Communication.
- Automatic Battery Test Add-on Options: 98% - 96%.

Static Transfer Switch



- Fusible Surge Protection.
- Maintenance Bypass Switch protection.
- Redundant Fans.
- Natural Cooling + Smart Fan System.
- Cabinet color.
- Cable Entry(Top/side/bottom/rear).
- Ingress Protection: up to IP66
- Touch Panel with Mimic Diagram.
- Auxiliary Trip Contact
- Earth Fault Protection (adjustable).
- Phase Voltage/Sequence protection.
- Operation Information.
- Monitoring and Shutdown Software.
- RS232 Serial and RS485 Ports.
- Modbus RTU (Optional).
- 2 Communication Slots.
- Remote Emergency Power Off (Optional).
- Remote Display Panel (Optional).
- Dry Contact (Optional).
- SNMP (Optional).

Outdoor



- 2 Source input
- 12-pulse rectifier (10% Input THDi)
- <5% Input THDi with harmonic filter
- Various voltage settings for different countries
- Removing input neutral at the site
- Input and Bypass Isolation (Scott)
- Bypass Voltage Regulator (Servo/Static)
- Fusible Surge Suppression (AC/DC)
- Redundant Fans
- Natural Cooling + Smart Fan System
- Cabinet color can be chosen from RAL codes
- Cable Entry (Top/side/bottom/rear)
- Ingress Protection: up to IP66
- Automatic Battery Test
- Touch Panel with Mimic Diagram
- Parallel up to 2 units
- DC Load supply
- Temperature Compensating Charging
- Auxiliary Trip Contact
- TMS or LSI/G Protection
- Dropper (for DC loads), LVD for battery protection
- AC/DC Earth Fault Protection (adjustable)
- Phase Voltage/Sequence Protection

www.tu-egy.com

Industrial Frequency Converter FC SERIES



Applications

- Marine and ports.
- Industry.
- Military.
- Mining.
- Transportation.



ABS

BUREAU VERITAS

CERTIFIED BY DNV·GL MARITIME

www.tu-egy.com



Key Features

- Compact design, high power density.
- No moving elements - low maintenance.
- High reliability and availability.
- Precise output frequency generation.
- Remote monitoring and control through Ethernet, Modbus TCP/IP protocols.
- Flexible in-built features.
- Optional operation with battery.
- Highly customizable.
- Easy maintenance and serviceability.
- 6- or 12-pulse thyristor rectifier at the core of the best-in-class reliability.
- Reduced inrush current ≤ 10xIn to avoid oversizing upstream protection and 2-step strat-up.
- <10% THDI in 12-pulse SCR system is possible without additional harmonic filters.
- <5% THDI in IGBT Base system is possible with additional harmonic filters.
- Smart access to FC data via a large color touchscreen with 2000-event exportable log.
- Unmatched overload and short-circuit capacity at 315% for 100ms*.

TEKNOWARE®

Established in 1972 and headquartered in Lahti, Finland, Teknoware supplies a wide range of interior light fitting systems for public transport vehicles and commercial vehicles, and emergency lighting systems for public premises and luxury cruise liners.

Central Battery Units

In a centrally supplied system, the emergency and exit lights share a common power supply from a central battery unit. In normal conditions, the central battery unit monitors the mains voltage, maintains the charging of the batteries, and supplies power to maintained luminaires. When mains supply is lost, the central battery unit supplies battery power to all the luminaires connected to it.





www.tu-egy.com

Emergency Lighting Systems

TEBA UNITED provides advanced **Emergency Lighting Systems** in partnership with Teknoware, a globally recognized manufacturer of high-quality emergency lighting solutions.

Our primary offering focuses on Central Battery Systems (CBS), designed to provide a centralized, reliable, and efficient emergency power source for emergency and exit lighting throughout commercial, industrial, healthcare, hospitality, and public buildings. Central Battery Systems simplify maintenance, improve system monitoring, and ensure dependable operation during mains power failures.

Technical

- Addressable and non-addressable Central Battery Systems
- Centralized monitoring and automatic self-testing
- Support BMS for enhanced operational control.
- 230 V AC emergency lighting distribution
- Battery capacities up to 450 Ah





www.tu-egy.com

Dynell®
The power league.

Products for Aviation

Solid-state - Mobile

units (pushable/towable)







www.tu-egy.com







www.tu-egy.com


Dynell


WS
Dyndll


Dynell

Solid-state– Bridge Mounted Unit





sinepower

Designing and building solid-state ground power units, static frequency converters, and EV chargers for civil and military aviation, the maritime industry, and electric mobility.





www.tu-egy.com


sinepower
SINEGPU
sinepower
SINEGPU
sinepower
SINEGPU
28VDC

SMART Automation & CONTROL




FLOOR 3
Offices
Meeting Rooms
Restrooms
Building Automation
10:24 AM
Lighting
HVAC
Security
Lighting
On

LifeSmart

Smart Hotel IoT Solution

Powered by LifeSmart EcoLink platform

Nature Mini Pro Thermostat



Smart Central Air-conditioning Controller PRO



In-wall Air Quality



Sublime Ultra



Smart Lighting

BLEND Switch PRO



BLEND Switch PRO - No Neutral



Anti-dazzle Round Downlight



BLEND Light Strip



Human Presence Sensor



Smart Curtain Motor



Energy Management

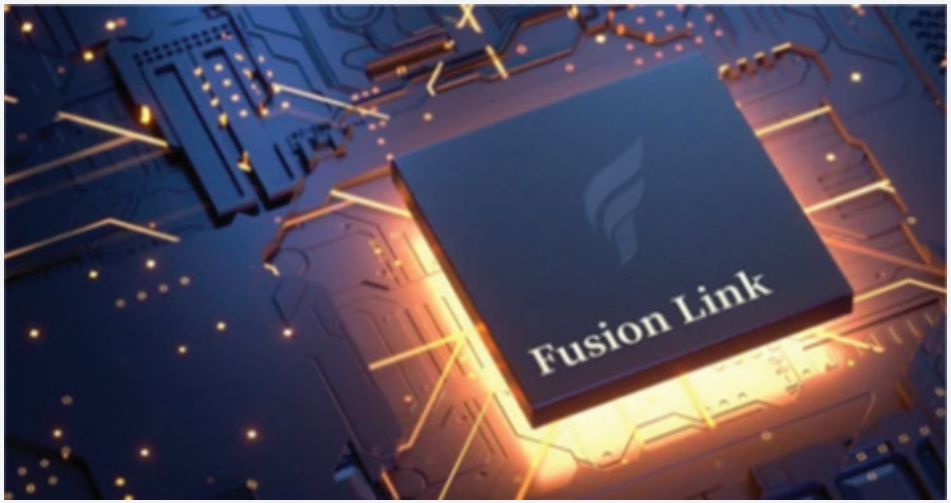
Integrate with RCU System

CoSS Protocol

Communication of Smart Star



LifeSmart boasts over 300 self-developed SKUs, covering eight major systems including control center, smart lighting, Hotel security, smart shading, smart sensor, thermostat & climate, Hotel theater and energy management system. Additionally, through its powerful smart station edge gateway, **LifeSmart** supports the integration of various ecological hardware, thus providing an integrated hardware and software solution encompassing PC SaaS platforms, mobile applications, and intelligent hardwares.



www.tu-egy.com

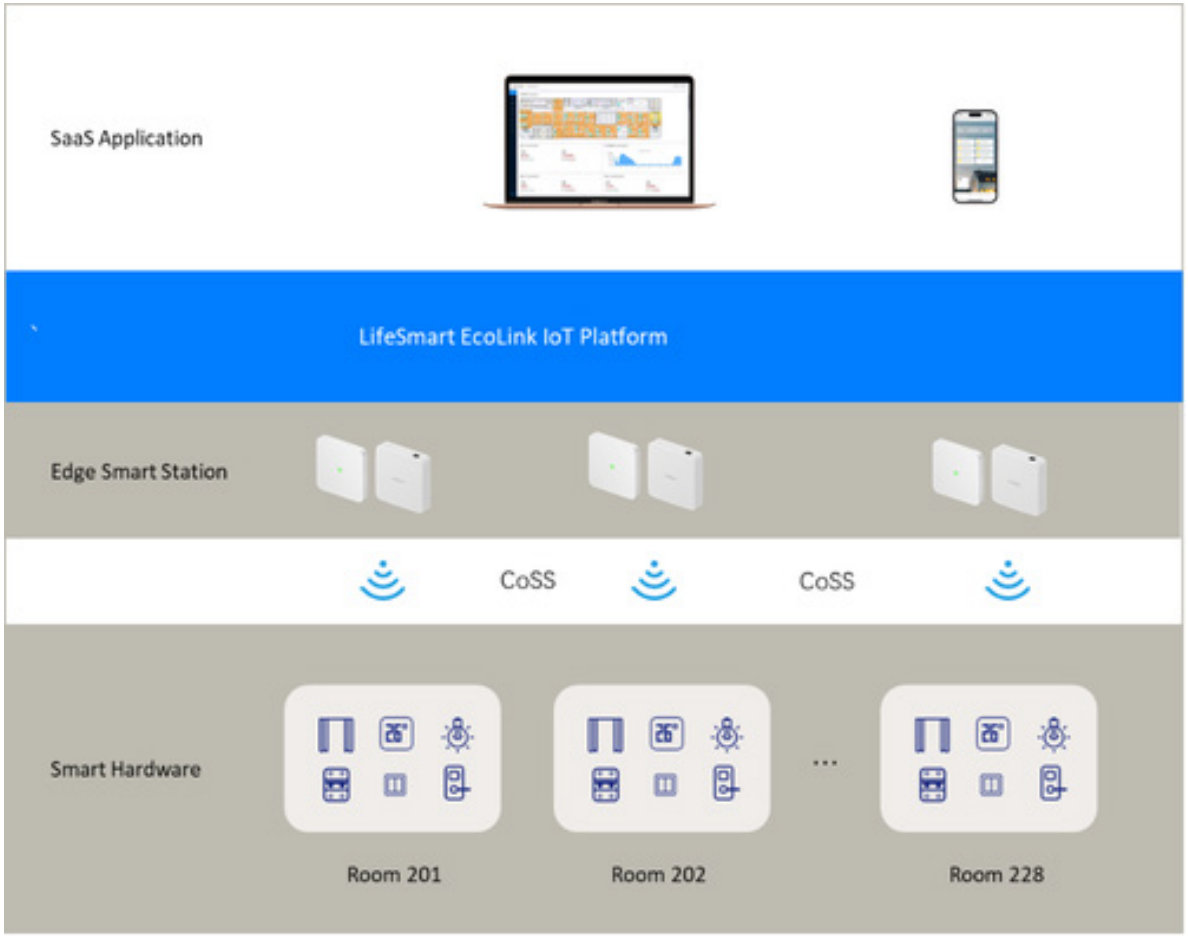
All-in-One Solution
Ready-to-use IoT solution



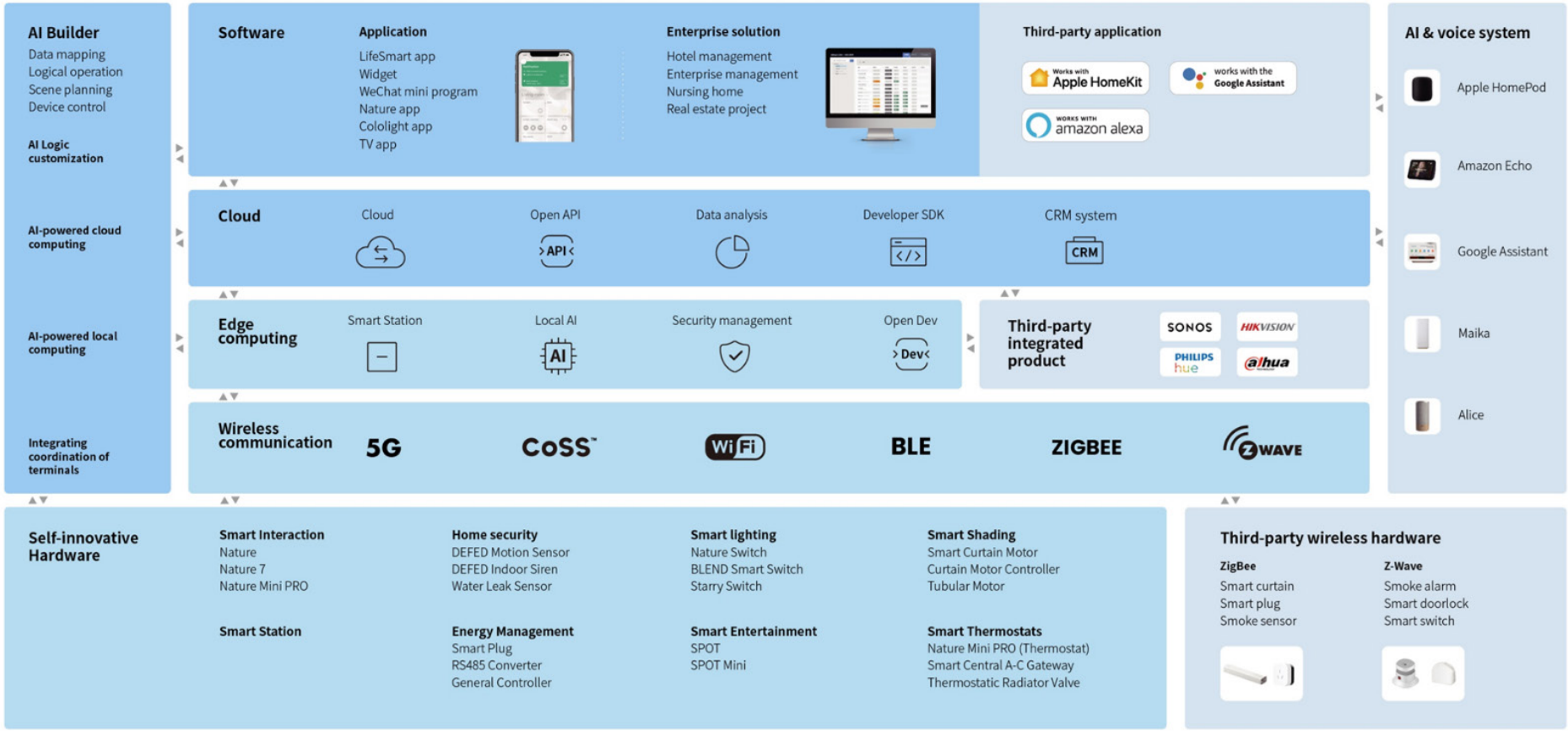


Ecosystem

Open APIs - Fulfill all developers and integrators



www.tu-egy.com



www.tu-egy.com

Engineering
& Contracting





Engineering & Contracting

Our company specializes in comprehensive electrical, mechanical, civil, Finishing Works and low current systems integration contracting services in the Architecture, Engineering, and Construction (AEC) industry. We are committed to delivering high-quality projects that meet all safety standards and local guidelines while adhering to project timelines.

We are a Premier MEP Contractor Proudly recognized as a First-class electro-mechanical & civil contractor

1ST CLASS
ELECTRO MECHANICAL & CIVIL CONTRACTOR





MEP Contracting

Mechanical Contracting

We offer a full range of mechanical contracting Supplies, installation, testing and commissioning, including:

HVAC Systems:

- Various HVAC systems, including VRV and VRF systems.
- Machine rooms (Chillers, Pumps, Cooling towers, Expansion tanks, Air separators).
- Chillers, package units, fan coil unit, fresh air handling units, chilled water pump set, Chemical Treatment and associated control system.

FireFighting System:

We proudly offer services in supplying and installing fire protection systems, specializing in CO2, FM200, aerosol fire suppression, and fire extinguishers. Our expertise ensures effective fire protection for all types of projects.

Electrical Contracting

We handle all aspects of electrical Supplies, installation, testing and commissioning including:

Low and Medium Voltage Works:

- Medium Voltage (Distributers, RMU's, Transformers, MV Generators, Cables)
- Low Voltage (Distribution Board, ATS, MCC's, LV Generator, UPS, Earthing System, Cables, Lighting systems).
- Electrical Indoor Distribution System.
- Electrical substations and infrastructure, and landscape.
- Safety and Quality Assurance: Our approach emphasizes safety and quality, ensuring that all electrical projects comply with relevant standards and local regulations.

Plumbing and Drainage Services:

- Water supply systems using PVC, PPR, copper, and PEX materials.
- Firefighting and sprinkler systems, including complete piping solutions.
- Water tanks, water pump, and firefighting pump.
- Comprehensive plumbing services, including the installation of compressed air systems, vacuum systems, and central heating systems with hot water calorifiers and exchangers.
- Rainwater drainage solution.



Civils & Interiors

Civil Works

Civil works encompass the foundational and structural elements of a construction project. Key components include:

Site Preparation: Clearing, grading, and excavation to prepare the site for construction.

Foundations: Designing and constructing various types of foundations (e.g., shallow, deep) to support the structure.

Structural Work: Erecting frameworks using materials such as concrete, steel, and masonry to create the building's skeleton.

Earthworks: Managing soil and rock movement for grading, trenching, and backfilling

Utilities Installation: Incorporating essential services, including water supply, sewage, drainage, and electrical systems.

Roadworks and Pavements: Constructing access roads, parking lots, and pedestrian pathways.

Finishing Works

Finishing works focus on the aesthetic and functional aspects of a building, ensuring it meets design specifications. Key elements include:

Interior Finishes: Installing drywall, flooring (tiles, carpets hardwood), ceilings, and all finishes (paint, wallpaper).

Exterior Finishes: Applying siding, cladding, and paint to enhance visual appeal and protect against weather.

Joinery and Millwork: Crafting and installing doors, windows, cabinets, and other woodwork.

Masonry and Plastering: Completing walls with brick, stone, or plaster to provide durability and a finished appearance.

Fixtures and Fittings:Installing lighting, plumbing fixtures, and electrical outlets for functionality and comfort.

Landscaping: Completing the project with outdoor elements such as gardens, pathways, and decorative features.



Integrated System Solutions

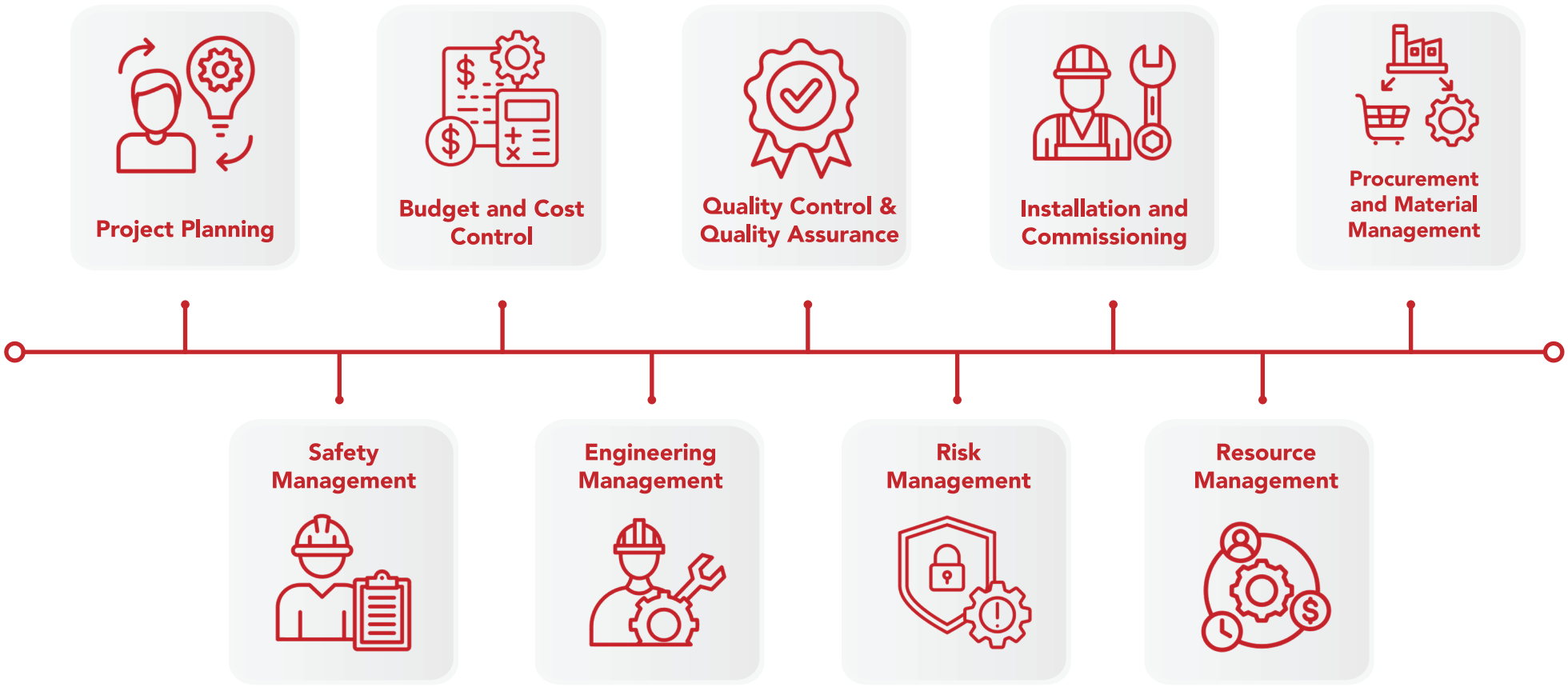
Low Current Systems Integration

Our expertise extends to low current systems, providing integration, Suppling and installation services for:

- Fire Alarm Systems
- Public Address Systems
- IP Structured Systems
- Data Centers
- Access Control Systems
- MATV&SMATV
- Guest Room Management Systems (GRMS)
- KNX (Smart Home Systems)
- Building Management Systems (BMS)
- Audio-Video Conference System.

We integrate these systems and more to ensure seamless operation and functionality across all project types.

Core Services



TU Project Execution

Commitment to Excellence

Our team is dedicated to delivering projects on time and within budget while maintaining the highest standards of safety, quality, and efficiency. We ensure that all our services are tailored to meet the specific needs of each project, guaranteeing client satisfaction and successful project outcomes.

Project Management and Delivery

We pride ourselves on our ability to deliver projects on time and within budget. Our project management approach includes:

Adherence to Project Schedules:

We prioritize meeting deadlines and maintaining project timelines to ensure client satisfaction.

Safety & Quality Assurance:

Rigorous quality control measures are implemented at every stage of the project, ensuring compliance with industry standards.

Collaboration:

We work closely with architects, engineers, and other stakeholders to ensure that all aspects of the project align with the overall vision.

Contracting Milestones






Commercial & Residential Buildings Sector:

- Al-Khamael City
- ORO Plaza Club
- Kom El Dikka Towers in Alexandria
- Alatareen Towers
- Alameen Villa
- Police Mosque
- Gardenia

Telecom Sector:

- WE Telecom Egypt Projects
- Vodafone Egypt
- Almaza Central
- Correctional & Rehabilitation Center - 10th of Ramadan

Industry Sector:

- GYPTO PHARMA (Madent El dawa)
- Coca-Cola Factory
- Egytech Cables Factory (Elsewedy Electric)
- Oil Factory (UCCMA)
- Feed Factory (UCCMA)
- Industrial Zone (Mubarak Camp)
- Bitarhrim Pipes Factory - Beni Suef
- Al-Amal Pipes Factory (Al-Sharif Company)
- Saqr Factory
- AOI Factory
- Free Zone (Cairo- Alexandria- Ismailia- Port Said)

Infrastructure Sector:

- New Capital
- Hyah Karima
- Toshka
- Ain El Hayat - Al Fustat
- Al-Tameer Project (Diyar)

Project Samples









Water Sector:

- Al Wadi El Geded Waste Water Treatment Plant
- Water Treatment Plant - Mansoura
- Water Treatment Plant - Hurghada

Hospitality Sector:

- Rixos Group (Sharm El Sheikh - Hurghada – North Coast)
- Radamis (Sharm El Sheikh)
- Tiba Rose Hotel
- Hilton (Sharks Bay Sharm El Sheikh- Taba-Elmontazah)
- Tulip Hotel - New Capital
- ELMO Hotel Marsa Allam
- Grand Azure (Sharm El Sheikh)
- Sofitel El Gezirah

Administrative Sector:

- United Nations New Capital
- Police Security Complex
- General Directorate of Passports
- Egypt Expo & Convention Authority
- Al-nassab al-tazkari – Police Academy
- Badr Correctional & Rehabilitation Center
- Asher Correctional & Rehabilitation Center
- Wadi El Natroon Correctional & Rehabilitation Center
- Minya Correctional & Rehabilitation Center
- Conference Center – Police Academy

Oil & Gas Sector:

- EGAS (Egyptian Natural Gas Holding Co.)
- Alexandria Mineral Oils Company (AMOC)
- Petromaint - Alexandria Petroleum Maintenance Co.
- Sidi Kerir Petrochemicals

Contracting Milestones









Educational Sector:

- Misr University for Science & Technology (MUST)
- Police Academy
- Faculty of Engineering - Mansora University
- Altaka Academy - Mansora University
- Badr University
- King Salman University
- Galala University
- Galala School
- Al Ahram Canadian University

Sports Sector:

- Police Club
- Dar Elmarasem
- Police Club (Alexandria)
- Bab Shark Club
- Al-Ahly Club
- Al-Zamalek Club
- Air Defense Stadium
- Police Union Stadium
- Rowing Club (Zamalek)
- Ismaileya Olympic Village









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Project Samples







Textile Sector:

- Egy France textile Company (Free Zone)
- Misr Spain Co. Blankets & Textiles (Industrial Zone)
- Egyptian International Textile Company "Tie"
- Pullovers Factory in Mubarak camp
- Zara Company in Free Zone
- Blankets Factory in Mubarak camp
- Pharaoh Factory or carpets and rugs
- Leathers Factory in Mubarak camp

Medical Sector:

- Police Hospital
- Medical Center (Cleopatra Hospital) – 6th of October
- Hahya Hospital
- Badr Hospital
- Minya Hospital
- ElGalaa Maternity Hospital
- Elgomhorya Hospital
- Institute of Ophthalmology
- Institute of Nutrition
- Cancer Treatment Center (Ismailia)

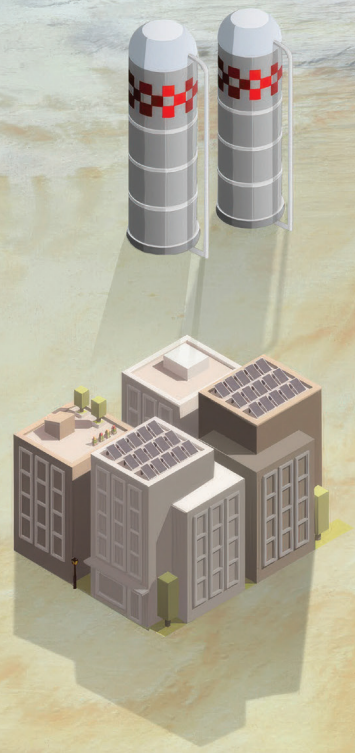





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ADMINSTRATIVE SECTOR 13 PROJECTS	**EDUCATIONAL SECTOR** 150 PROJECTS	**OIL & GAS SECTOR** 50 PROJECTS	**SPORTS SECTOR** 32 PROJECTS




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TU FACTORY
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TU Factory Capabilities




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TU-Factory Capabilities

87,000 m2	30%	15,100 m2
Industrial Area	Warehouse Capacity Within the Industrial Area	Warehouse Area

Industrial & Engineering Infrastructure

Unified Factory Campus: One main industrial complex containing 4 specialized factories internally (Production Line Area, LV Panels Area, Lighting Area, Warehouses I MV Kiosks, Switchgear & RMUs IDiesel Generators Area I Earthing & Lightning Area)

FAT & Engineering Hub (on-campus): Dedicated Engineering Design, QC, and Factory Acceptance Testing lines for panels, substations, and integrated power packages.



Production Line & Manufacturing Capabilities

- **Robotic Electrostatic Coating** ensuring consistent finish, optimized material usage, and enhanced operational safety.
- **CNC Sheet Metal Manufacturing & Assembly** delivering high-precision fabrication and automated production efficiency.
- **Scheduled Machine Inspection & Measurement Control** maintaining consistent performance and quality assurance.
- **High-Volume Sheet Metal Production** supporting large-scale manufacturing with reliable output.
- **Ultra-Precision Accuracy up to 0.001** across all manufacturing and assembly phases.
- 100% Accuracy Department Quality Check

Industrial Capacity

Low Voltage

- Final Branch Panels (30k/ Year)
- Main Distribution Panels / Medium Panels (3000/ year)

Medium Voltage

- Kiosks (3000/ year)
- RMU (5000/ year)
- SF6 (3000/year)
- Load Break Switch (50k/ Year)

Diesel Generators

3000 unit/ year including all products

Cable Trays

50k Meter/ year

Lighting

50k unit/ year

Earthing

100k Rod/ year

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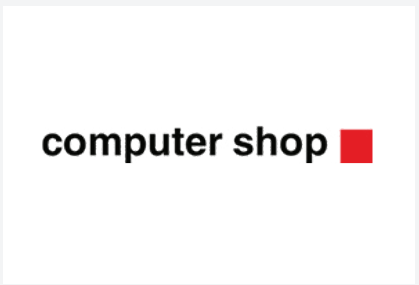

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