

# TPC ENERJI

TURKISH POWER CONVERSION • ENERGY • ELECTRICAL-ELECTRONICS ENGINEERING • CONSTRUCTION • CONSULTANCY • EXPORT • IMPORT

[www.tpcenerji.com](http://www.tpcenerji.com)



# TPC ENERJI

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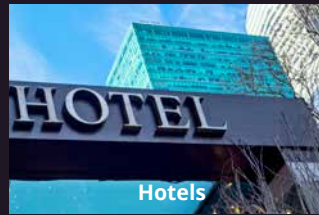
TPC ENERJI

## ABOUT US

### TPC ENERJI provides complete power solutions and turnkey contracts

We know the importance of solar power as the backbone of your business that is why we offer innovative, mission-critical, turnkey solutions that offer you NONSTOP pure electricity availability, improve efficiency and offer flexible scallable systems to protect your equipment from hazards and outages that can cause multi million dollars losses.

We also provide other services outside power such as mechanical construction related works and consultancy services. Our worldwide experienced engineering team can give you our European standard in terms of the quality of job in required time.





TPC ENERJI

# TPC Enko Nigeria Limited.

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TPC ENERJI

## Areas of engineering and construction services

- Railway and subway
- Engineering
- Petrol and Gas Services
- Renewable Energy Power plants
- Pumping Stations Refineries and
- Tank fields
- Energy Santras
- Industrial Zones
- Hospitals and Health Services
- Hotel and Tourism
- Shopping Centres
- Ports / Marine/ Army institutions
- Banking and Finance
- Water Transferring Systems



Construction work



Service and maintenance contracts



Mechanical electrical consulting (mep)



Import and export



## Electrical and mechanical contracts

- Ups Stabiliser and chargers design and supply
- Industrial Power Solutions
- Long Back-up and Battery
- Bank Systems
- Inverter Charges systems
- Solar and Winds Power conversion
- Systems including solar street lights
- Medium and low Voltage
- Electrical Installations
- Cable trays and busbay systems
- Air Conditioners
- Heating Systems
- Health Structures
- Fire Protection Systems
- Automated Control Systems
- Building Management Systems
- High Pressure Control
- Isolations Systems
- Telephone and data Systems
- Communication Systems
- Fire Protection Systems
- Alarm Systems
- TV and Camera Systems



## TPC ENERJİ

### Has the capacity supply and handle contracts below,

- Uninterrupted AC power solutions up to 6 MVA
- Uninterrupted DC power solutions up to 6000 Amper
- Voltage stabilisers up to 6000 kva.
- Inverters up to 6 MVA ,
- Frequency converters up to 6 MVA
- Static and Mechanic Transfer Switches up to 4200 Amper
- Diesel and Gas powered Gensets up to 70 MVA
- Transformers and power transmission up to 150MVA
- Batteries VRLA, OPZV, OPZS, TRUCTIONER, GEL up to 3000 AH.
- Solar ON-GRID, OFF-GRID RENEWABLE ENERGY solutions to generate electricity from sunshine and able to store in battery banks up to 10 MW
- Medium and Low voltage distribution equipments
- Distribution panels, cables, cable trays and busbar systems
- LED lighting and conventional lighting / Ceiling works / Lighting Projects Design
- CCTV intercom solutions / Access Control / Partitioning Office
- MEP consulting and auditing
- Electrical-Electronics Engineering Contracting and Consultancy
- Service and Maintenance of your power systems
- International trade by doing Turkish Manufacturers distributorships



### Solar on grid, off-grid renewable solutions to generate electricity from sunshine and able to store in battery banks up to 10mw

- Distribution panels cables, cable trays and busbar systems
- LED Lightings convention and lighting Ceiling works / Lighting Projects
- CCTV , intercom solutions / Access Control / Partitioning of office
- MEP consulting and auditing
- Electrical-Electronics Engineering Contract and Consultancy
- Service and Maintenance of your power systems
- International Trade by doing Turkish Manufacturers



# COMPLETE ENERGY SOLUTIONS



## ACCURATOR A Series 1-1000KVA

### Complete Energy Solutions

From 600 VA to 6.4 MVA

- Online Ups
- Modular Ups
- Dynamic Rotary Ups
- Industrial Ups
- Voltage Stabilizers
- Rectifiers/Battery Charges
- Precision Cooling Systems
- Static Tranfers Switches
- Frequency Converters
- Renewable Energy Systems



## ACCURATOR TDSP Series 1-800 KVA

### Uninterrupted AC power solutions

Scalable up to 6000 KVA

- 1 PH+N, 230 VAC ,50HZ 1-40 KVA
- 3PH+N, 400 VAC,50 HZ , 10-800 KVA
- Modular or Standalone
- Telecom/IT or Industrial Type
- Standard or Long back up





# COMPLETE ENERGY SOLUTIONS

TPC ENERJI

## TPC Enko Nigeria Limited.

### TXP T100-T200-T300 Series 5-600 KVA

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[sales@tpcenerji.com](mailto:sales@tpcenerji.com)

### Uninterrupted AC power solutions

Scalable up to 6000 KVA

- 1 PH+N, 230 VAC, 50HZ 1-40 KVA
- 3PH+N, 400 VAC, 50 HZ, 10-800 KVA
- Modular or Standalone
- Telecom/IT or Industrial Type
- Standard or Long back up

### T11-1-15 kVA



# COMPLETE ENERGY SOLUTIONS

## ACCURATOR DX Series

100-800 kva



## ACCURATOR S Series



## ACCURATOR K Series

### Uninterrupted AC power solutions

Scalable up to 6000 KVA

- 1 PH+N, 230 VAC, 50HZ 1-40 KVA
- 3PH+N, 400 VAC, 50 HZ, 10-800 KVA
- Modular or Standalone
- Telecom/IT or Industrial Type
- Standard or Long back up





# LITHIUM ION UPS MODELS

## Capacity

• 1000VA • 1-3kVA • 6-10kVA • 10-200 kVA • 200kVA



**ACCURATOR Y 100  
Y 200 Y 300 Series UPS**



**HPM Modular Lithium Batteries UPS**



**ACCURATOR H PM 300 Series Modular UPS**



Construction work



Service and maintenance  
contracts



Mechanical electrical  
consulting (mep)



Import and export

# GALVANIC ISOLATION TRANSFORMER



## Protector Mono Series Protector Alles Series

**Monophase (2-40kVA) / Three-phase (10-600kVA)**

Galvanic isolation transformers ensure that the network and the load are isolated from each other. It is used to prevent electric shock within the framework of occupational safety and to minimize the impact of network problems on devices. Our monophase & three-phase isolation transformers, using high quality materials, solutions are offered to suit the needs. It has a wide capacity range as open type without enclosure (without cabinet) and as protected type with IP23 enclosure (with cabinet).

### Usage Areas

- UPS Systems
- Medical Devices • CNC Machines
- Ships and Boats
- Shipyards
- Metal Processing Facilities
- Rectifier and Battery Chargers
- Industrial Machinery Electrical Supply Devices

### General Specifications

- Galvanic isolation transformers are used for healthier operation of devices used for industrial purposes. It prevents the reflection of magnetic noises in the network to sensitive industrial devices, as well as it also prevents the reflection of electrical pollution caused by non-linear devices to the network.
- Galvanic isolated transformers reduce electric shocks and minimize damage to machinery in the industrial area. It prevents the load from being damaged, especially in case of a card failure that may occur on the UPS output floor.



# DC POWER SUPPLY/BACK UP



## ACCURATOR DCP Series

### Uninterrupted DC power solutions

#### Scalable up to 6000 Amper

- 1 PH+N 230VAC IN/24-48-110-220-405-810 VDC OUT
- 3 PH+N 400VAC IN/24-48-110-220-405-810 VDC OUT
- Modular or Standalone
- Telecom/IT or Industrial Type
- Standard or Long back up



# VOLTAGE STABILISERS/ POWER SAVERS

**Servo voltage stabilisers up to 6000 kva**

- 1 PH+N+G 80-300 VAC 220-230 VAC %1-5 OUT 50HZ
- 3 PH+N+G 220-500 VAC IN/380-400-415 VAC %1-5 OUT 50HZ
- Standalone
- LCD calibration
- Full grid protection and security
- Overload Protection
- Static Voltage Stabilisers up to 24000 kva
- 1 PH+N+G 80-300 VAC 220-230 VAC %1-5 OUT
- 3 PH+N+G 220-500 VAC IN/380-400 VAC %1-5 OUT 50HZ
- Standalone, Maintenance Free
- Superfast 500 V/Second
- Unique Parallel Connection Ability
- LCD calibration
- Full grid protection and security
- Overload Protection



**ACCURATOR Servario  
TVR 100 -300 Series Stabilisers**



**ACCURATOR Tyrovario Tsvr 100 -300 Series**



VOR  
Parallel Voltage Stabilizer



VSC  
Dynamic Voltage Restorer



IMP  
Static Voltage Stabilizer

# TELECOM POWER SOLUTIONS OFF/ON GRID REVOLUTION

## ACCURATOR Teleron Modular Power Systems

TPC ENERJİ is a patented all-in-one modular power conversion system, developed by IPS to withstand the harshest conditions while keeping its flexible architecture.

- from 2 kW up to unlimited;
- Ability to work in the harshest conditions, from -40°C up to +80°C, high level of dust, sand and humidity;
- EXERON can simultaneously manage different power sources – solar, grid, diesel genset and use battery storage for back-up;
- Provides uninterruptable AC and DC power;
- Proven and reliable technology;
- Unlimited back-up time;
- Battery life extension.



## All In One

incorporates:

- Solar Charge Controllers
- DG/Grid rectifiers
- Inverters
- DC/DC converters
- Cathodic Protection controllers

## Hot-Plug Scalability

The uniqueness of TPC ENERJİ is in its modular structure and the hot-pluggable modules that makes it easy for installation. Exchange of modules or power upgrade is easily performed in seconds without special skills. The TPC ENERJİ remains powered and operational during module exchange or upgrade.

## Technical Description

Power Distribution Unit (PDU)

Monitoring and Control Unit (MCU)

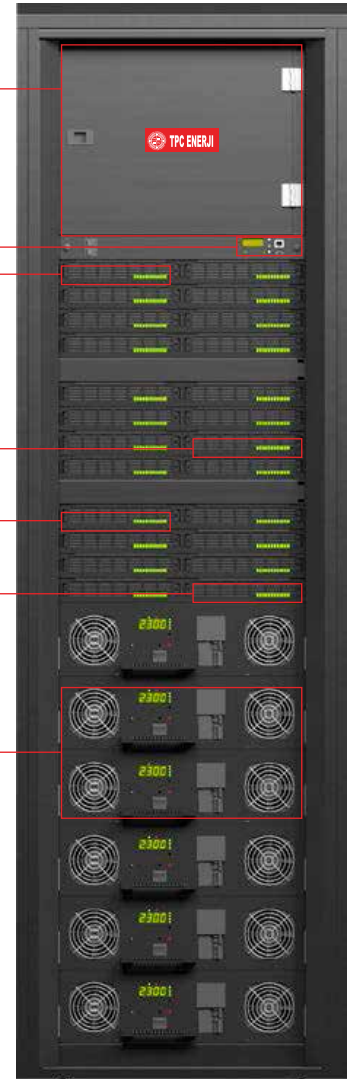
Solar Charge Controller (SML2000)

Grid/DG Charge Controller (ML2000)

Cathodic Protection Module (XCP)

DC/DC Converter (XDC)

Inverter (I4000B)



## ACCURATOR Teleron Modular Power Systems

### Indoor Applications

TPC ENERJI can operate for indoor applications as well as for outdoor. For indoor use, TPC ENERJI is available in three standard configurations. Each type can be modified depending on client's needs and desires, using the unique plug and play principle of the modules.



#### SX

Up to 4 kW

- 1 x PDU
- 1 x MCU
- 2 x SML2000
- 2 x ML2000
- 1 x I4000B



#### MX

Up to 12 kW

- 1 x PDU
- 1 x MCU
- 6 x SML2000
- 6 x ML2000
- 3 x I4000B



#### FX

Up to 24 kW

- 1 x PDU
- 1 x MCU
- 12 x SML2000
- 12 x ML2000
- 6 x I4000B



### Systems bigger

than 24 kW

- 1 x PDU
- 1 x MCU
- N x SML2000
- N x ML2000
- N x I4000B

### Outdoor Applications

TPC ENERJI has been designed for demanding defense applications and can therefore operate in environments from -40° C up to 80°C. The system is available in various cabinets and shelters for outdoor applications. Depending on the battery type and customer's requirements, the TPC ENERJI outdoor solutions are equipped with several cooling options: free cooling, heat exchanger, air conditioning or the special IPS's non-compression-based cooling.



#### COOLRACK

CoolFlow series presents an outdoor cabinet with a build-in high-technological cooling unit for battery and power equipment, providing a constant controlled temperature.

- Maintenance-free A/C
- Anti-corrosion surface
- Closed air flow
- Protection: up to IP 65
- T-range: -20°C up to +55°C



#### COOLFLOW

CoolFlow series presents an outdoor cabinet with a build-in high-technological cooling unit for battery and power equipment, providing a constant controlled temperature.

- Double walled
- Anti-corrosion surface
- Closed air flow
- Protection: up to IP 55
- T-range: -40°C up to +45°C



#### FREECOOL

The FreeCool series has been developed by IPS for budgetary applications. Single or double wall cabinets with various mounting kits for ground, wall and pole installations.

- Low-cost solution
- T-range -40°C up to +45°C
- Protection: up to IP 55
- T-range: -40°C up to +45°C

# HYBRID POWER SYSTEMS

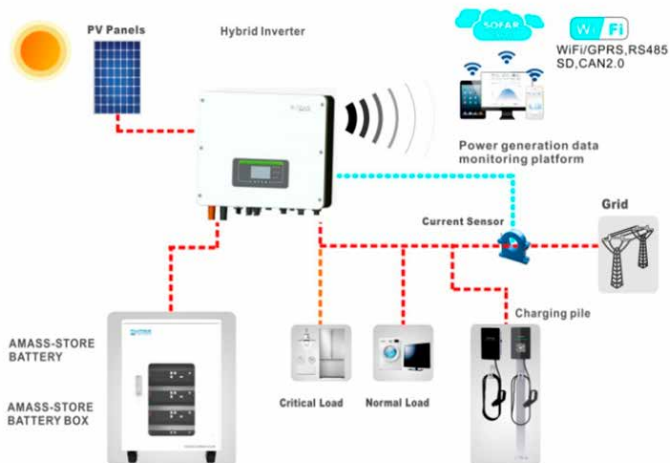
## ACCURATOR Hybron Hybrid Solar Inverters

### Uninterrupted solar hybrid inverters

#### Scalable up to 6000 Kva

- 12-24-48-110-220-405-810 VDC IN /220/230 VAC IN/  
OUT 50 HZ 1PH+N+G
- 12-24-48-110-220-405-810 VDC IN /380-400 VAC IN/  
OUT 50 3PH+N+G
- Modular or Standalone, MPPT built in internal or  
external, CHARGER BUILT IN OR EXTERNAL
- Telecom/IT or Industrial Type
- LifePO4 /AGM/GEL /OPZV/OPZS /Ni CAD Long back  
up can reach up to 24 HOURS
- HYBRID POWER SYSTEMS

## Hybrid Solar System



## The Principle








# HYBRID POWER SYSTEMS

## ACCURATOR Hybron Hybrid Solar Inverters

### Three Phase String Inverter

**SUN-3/4/5/6/7/8/9/10/12/15K-G06P3-EU-AM2**









-  2 MPP trackers, Max. efficiency up to 98.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

### Three Phase String Inverter

**SUN-60/70/75/80K-G04P3-EU-AM4**










-  4 MPP trackers, Max. efficiency up to 98.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Type II DC/AC SPD

### Three Phase Hybrid Inverter

**SUN-14/15/16/18/20K-SG05LP3-EU-SM2**










-  100% unbalanced output, each phase; Max.output up to 50% rated power
-  AC couple to retrofit existing solar system
-  Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 350A
-  48V low voltage battery, transformer isolation design
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

### Three Phase Hybrid Inverter

**SUN-60/75/80K-SG02HP3-EU-EM6**



-  100% unbalanced output, each phase
-  AC couple to retrofit existing solar system
-  Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 160A
-  High voltage battery, higher efficiency
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator



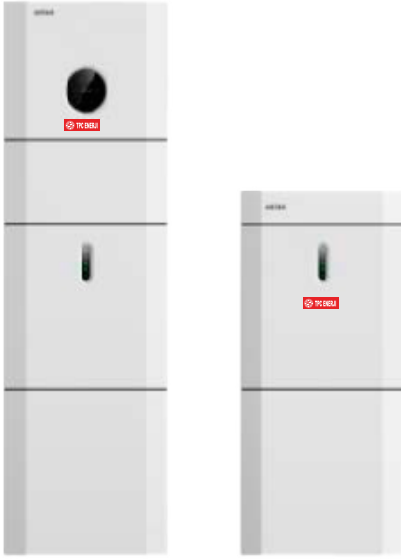
# ENERGY STORAGE/ LONG BACK UP SYSTEMS

## ACCURATOR Enerstor Series Energy Storage Systems

12-24-48-110-220-405-810 VDC

- LifePO4 /AGM/GEL /OPZV/OPZS /Ni CAD Long back up can reach up to 24 HOURS

ENERGY STORAGE/LONG BACK UP SYSTEMS



# ON GRID POWER SYSTEMS AND SOLAR POWER PLANTS WITH/ WITHOUT STORAGE



**ACCURATOR Enersolid Series On Grid String Inverter Systems**

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# TPC MOBİLİTE



TPC ENERJİ

## TPC Enko Nigeria Limited.

### EV Charger

Smart, Safe, Fast and Effective Charging Solutions for various applications.

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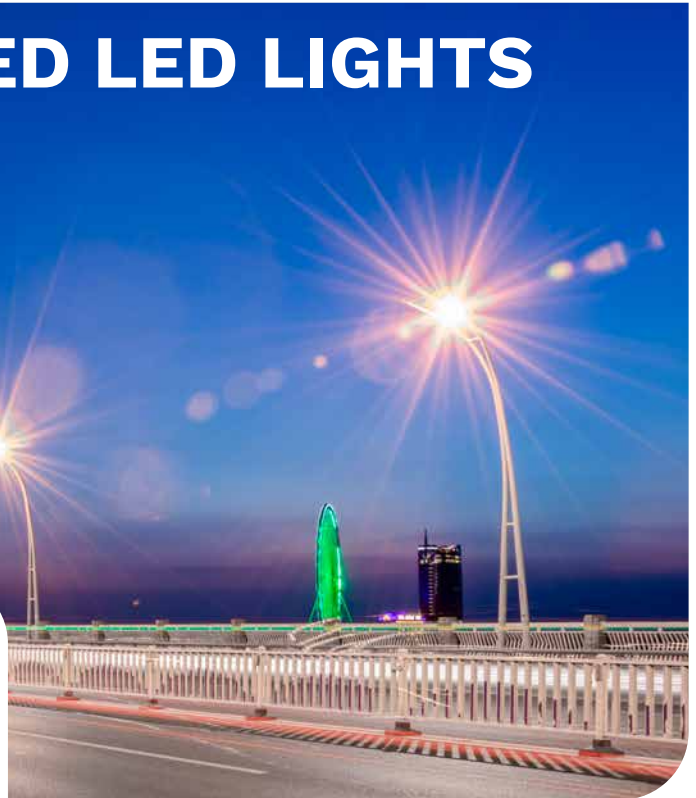


# ACCURALED SERIED LED LIGHTS

## Product Details

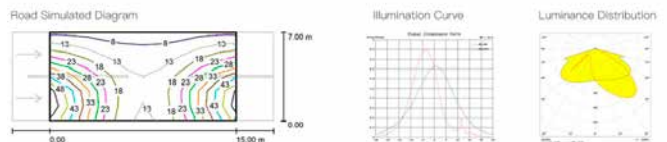
**The iteration of new energy products constantly motivates us to make breakthroughs in product development and technology**

- New city / New community / Highway / New suburban road lighting system intended for use with LED light sources.
- Installation on poles with pole-tops and lateral arms or whip-type poles with terminals measuring  $\varnothing$  60mm or  $\varnothing$  76 to  $\varnothing$  100mm adapter.
- Main material in aluminium; stainless steel bracket.
- High visual comfort.
- Battery pack have heat insulation method and temperature detection for charging and discharging temperature protection.
- High yield optics (with polymer optic lenses and uniform light distribution).
- No photo-biological risks. This luminaire is in the "Exempt Group" (no risk linked to infrared, blue light and UV radiation) in accordance with EN 62471:2008.
- The luminaire can be programmed in every order.
- The luminaire is supplied in three steps Midnight mode and can be lit automatically by a ray sensor.
- Overvoltage and Overtemperature protection.
- An active control system (ALS technology, patent for invention No. 201710713248.6) changes the current intensity in order to maintain the lighting time of the luminaire even under extremely severe weather.
- LED modules, controllers, and battery packs can be replaced independently.
- All external screws used are in SUS304 stainless steel.
- The Atlas series comprises four models: solar streetlights, intelligent solar streetlights, AC-solar hybrid streetlights, and intelligent AC-solar hybrid streetlights.
- It can be expanded into a smart street light with a Bluetooth chip, which can be managed through mobile phones and computers.

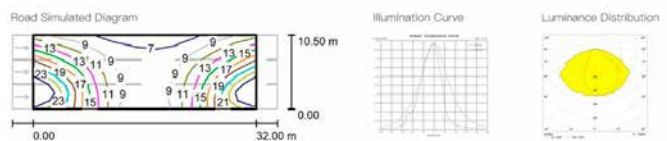


## Optical Figure

SSL-32M/34M



SSL-36M/38M/310M



# BATTERIES FOR HOME ,OFFICE COMMERCIAL AND INDUSTRIAL

LIFEPO4 VRLA, OPZV, OPZS, TRUCTIONER, GEL UP TO 1-2-6-8-12-24-48-400-800V DC 5-3000 AH.

## Intelligence

- Supports Wifi and BT view real-time data through APP
- Supports communication with PC via USB port

## User friendly

- Large LCD screen with real-time data
- Large universal wheel design, easy to move

## Safety

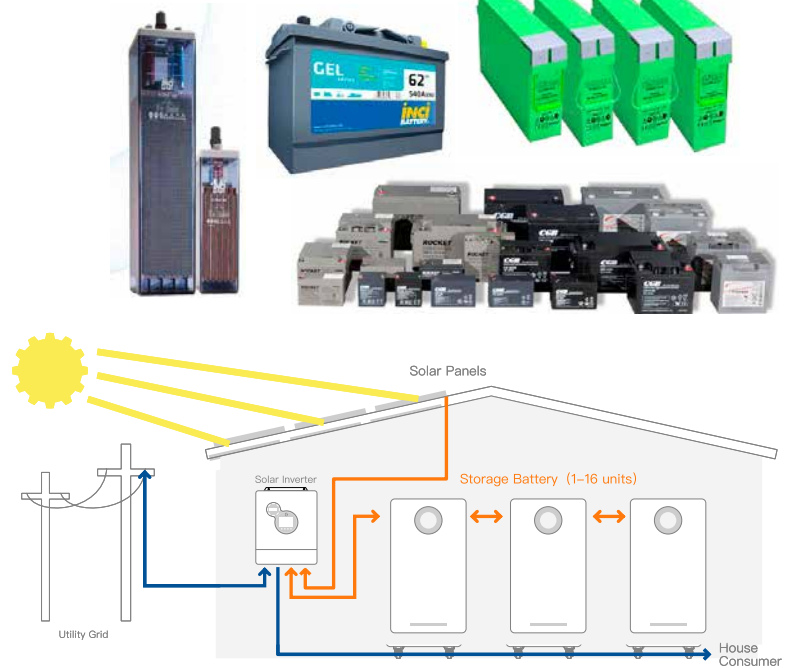
- High quality lithium iron phosphate cells
- With IP65 protection degree
- Secondary breaker protection

## Easy to install

- Supports wall or floor mounting
- Plug-and-play, wiring can be done from either side

## Easy to upscale

- Compatible with many brands of inverter protocols
- Up to 16 units in parallel, expand to 256kWh



SE Series 5.12  
- 14.33kWh



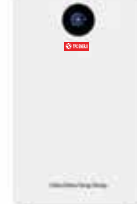
EVH Series  
7.5 - 20kWh



EOM Series 4.01kWh



EOS Series  
16.07kWh



EOS Series  
10.24kWh




EOS Series  
5.12kWh



EOC Series 5.12kWh

## KOMBAT AND ACCURABAT SERIES BATTERIES

# MICRO WIND /HYDRO POWER SOLUTIONS



The new ® Turbo5000 wind turbine is a high quality, extremely durable, highly efficient and superior performance wind turbine. ® PMG Generator which is developed by Engineering, converts the wind energy into electrical energy in the most efficient way. With its advanced aerodynamic structure and electrical power it is the best wind turbine in its class. Its specially developed wings that make almost no noise are made of 100% fiberglass. In case the wind speed reaches over 3 m/s, the turbine rotates freely and generates electricity, exceeding this holding torque. The maintenance-free sliding contact guarantees a good current flow so that the cable does not bend at the pole.

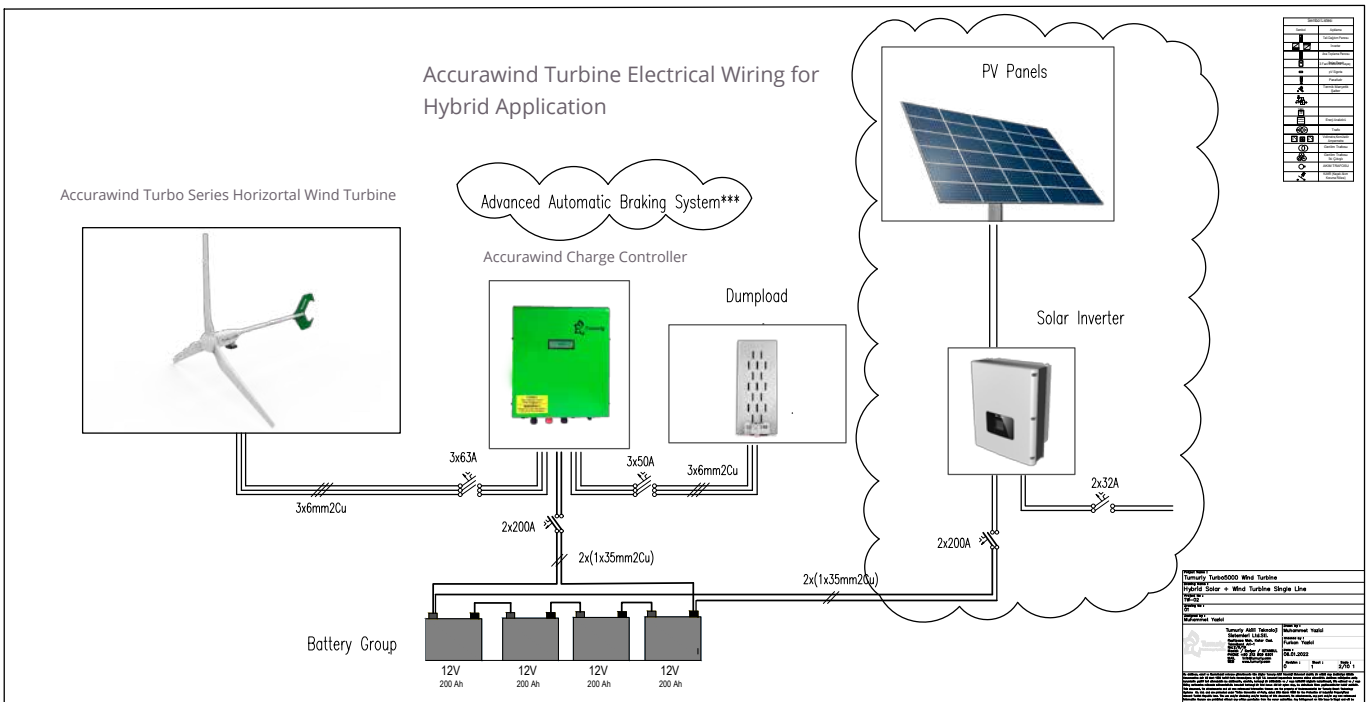
**ACCURAWIND SERIES WIND TURBINES**

# ACCURAHYDRO PRO SERIES HYDRO POWER SYSTEMS

## Energy Systems & Design

### Features

- High Efficiency - resulting in more power from the water source
- Tunable Generator which maximizes output
- More user friendly - Easy to install and service
- Outputs of 2+Kilowatts (KW) and 12, 24, & 48 volt options. Generating 240 volts
- Operating Range from 3 meters (10ft) to over 100 meters (300ft)
- Can operate with 1 to 4 nozzles
- Same as basic Stream Engine
- Employs a brushless, permanent magnet alternator
- Adjustable to match turbine output to electrical load
- Capable of outputs up to 2+ kilowatt (KW)
- Plastic and stainless steel turbine wheel options
- Universal nozzles or brass nozzle inserts
- Made of non-corrosive alloys for long life and durability
- Made in-house to ensure top level of quality control



# ACCURATOR CUSTOM SERIES



## Special Custom Design Solutions



- Frequency converters up to 1000 Amper
- 120/208 V, 60/400 Hz - 230/400V, 50Hz / 60Hz (other voltage ranges available)
- 110V 60HZ UPS MODEL
- INDDOOR AND OUTDOOR INDUSTRIAL RECTIFIER UPS AND AVR MODELS



# NO BREAK POWER TRANSFER SYSTEMS



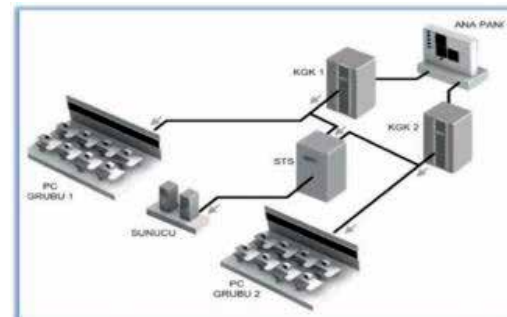
- 220/230/240 VAC 1P + N + G
- 1 Pole if neutral switching 2 pole
- 32-120 amper rack mount



- 380/400/415 VAC 3P + N + G and 4P 32-800  
AMPER Stand alone

**ACCURATOR STS 100 300 400 Series**  
**ACCURATOR ATS 100 300 400 Series**

Tescom STS, allows instantaneous transfer of power sources to the load. If one power source fails, the STS switches to the back-up power source so fast that the load never recognizes the transfer made.



## Increased power quality

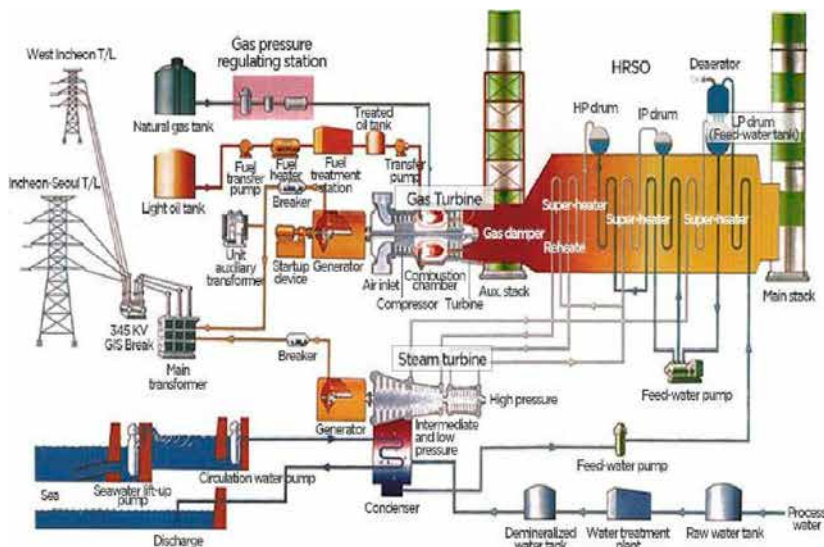
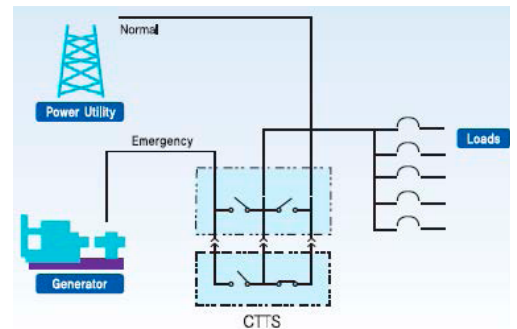
- Increased noise reduction
- Power blackout protection
- Power redundancy
- Automatic static switching
- Remote monitoring input power sources
- Easy static and mechanical transfer to input sources
- Remote management the power events
- Power event logging
- Output current capability up to 100% for short time
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62310

# DIESEL/GAS POWER BACK UP SYSTEMS



## ACCURAGEN DIESEL GAS PETROL GENSETS SERIES

- Diesel and Gas Powered Gensets with Automated Transfer Switches
- 1-10000 KVA diesel gensets and 1-70 MVA Gas powered Gensets
- 400 VAC , 50 HZ and 11.000 VAC ,50 HZ selectable
- Tropical motors and Alternators such as CAT-PERKINS-CUMMINS Motors  
Selection depends on environmental design.



# TRANSFORMERS

TPC ENERJİ

## TPC Enko Nigeria Limited.

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- Oil-immersed transformers are used to decrease the 3,3 kV-36KV to less than 1000 V such as 380/400/415 VAC scalable from 25-5000 kVA



- Oil immersed medium voltage power transformers 5000 kVA to 40000 kVA up to 110 KV. These transformers are mostly used for city transmissions, larger production facilities and power plants.



- Dry type Transformers up to 25 MVA with maximum voltage rating 36 KV

Large power transformers are scalable up to 250 MVA , 420 KV .All custom made design are possible.

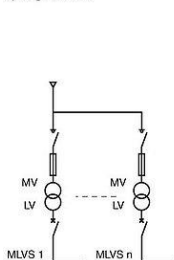
# MEDIUM AND LOW VOLTAGE DISTRIBUTION EQUIPMENTS



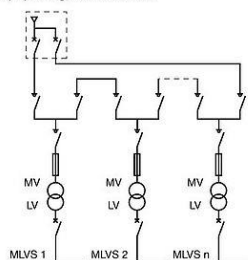
## MV/LV Substations (LV distribution, RMU, Transformer)



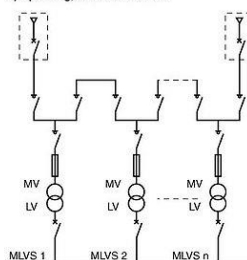
a) Single feeder:



b) Open ring, 1 MV substation:



c) Open ring, 2 MV substations:



## Mccb, mcb breakers, fuses , contactors, capacitors, meters, changeover, Surge Protectors and more

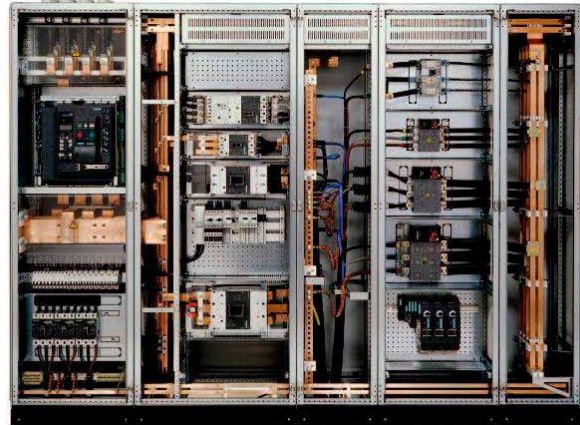


# DISTRIBUTION PANELS, CABLES, CABLE TRAYS AND BUSBAR SYSTEMS

## Cables and Trays

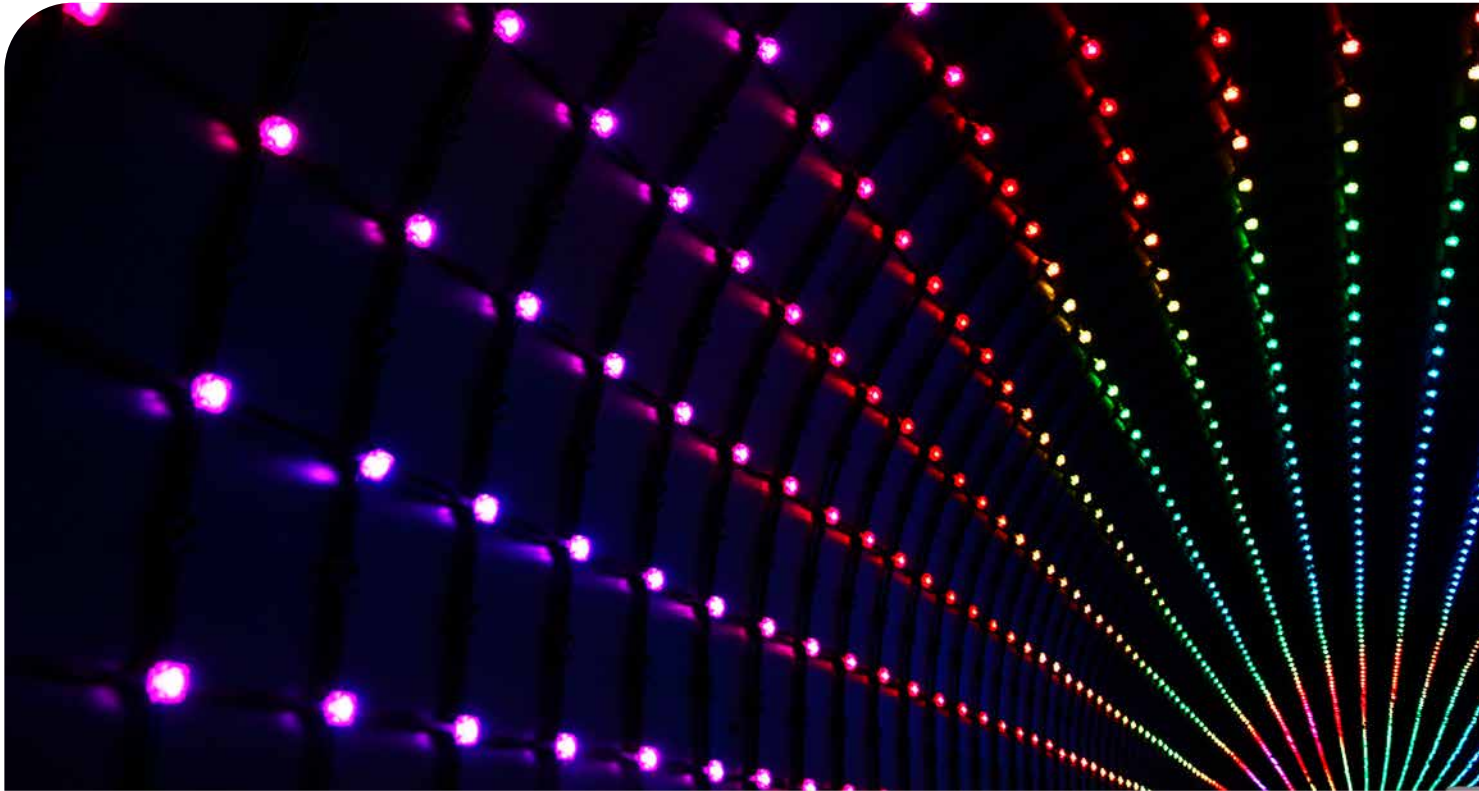


## Distribution Panels



## Busbars for larger factories





**LED lighting and conventional lighting, Partitioning and ceiling works**

**CCTV intercom solutions/ Access Control**



Led lights/Bulbs/Projectors



Led lighting Design



Access Control/Intercom Solutions



Office delivery/Partitioning



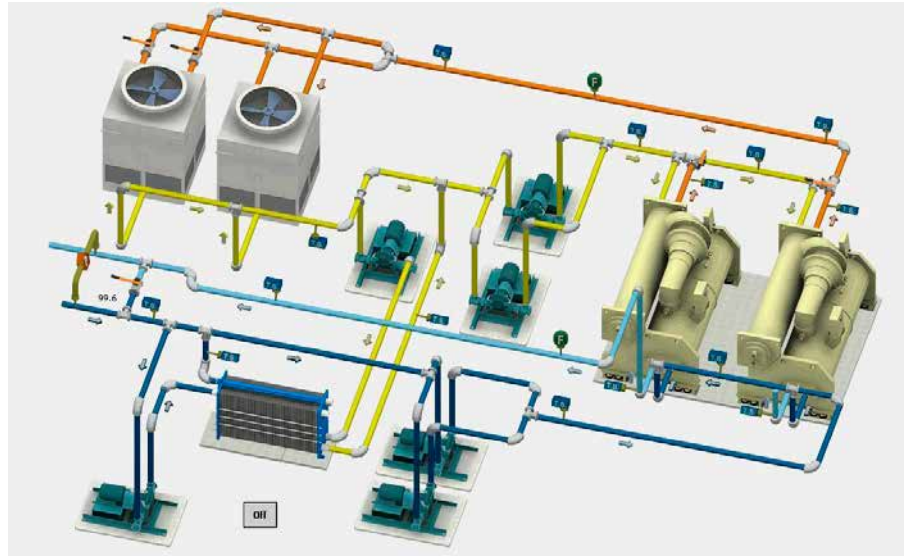
Ceiling works (Cables-fire protection-AC-lights)



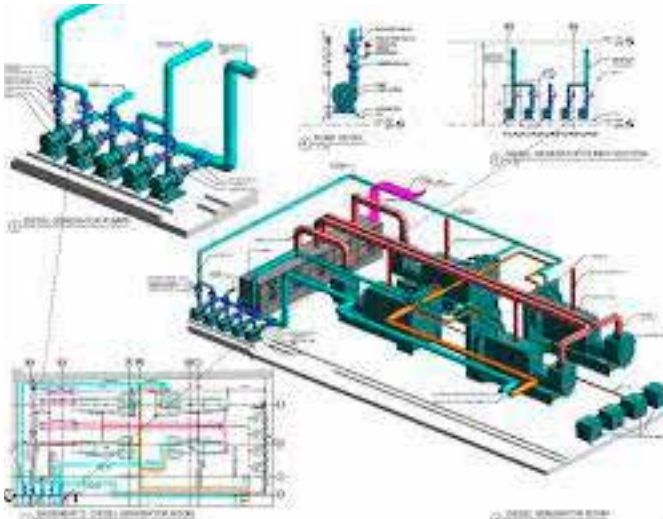
CCTV solutions for Home and Office

# MEP CONSULTING AND AUDITING,

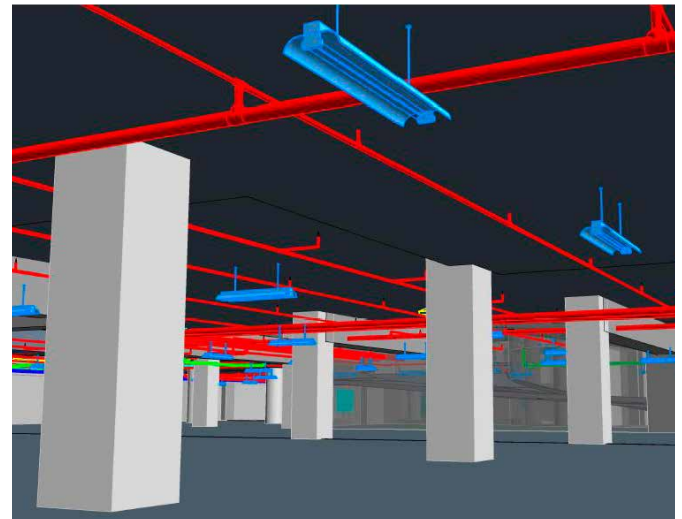
## ELECTRICAL-ELECTRONICS ENGINEERING CONTRACTING AND CONSULTANCY



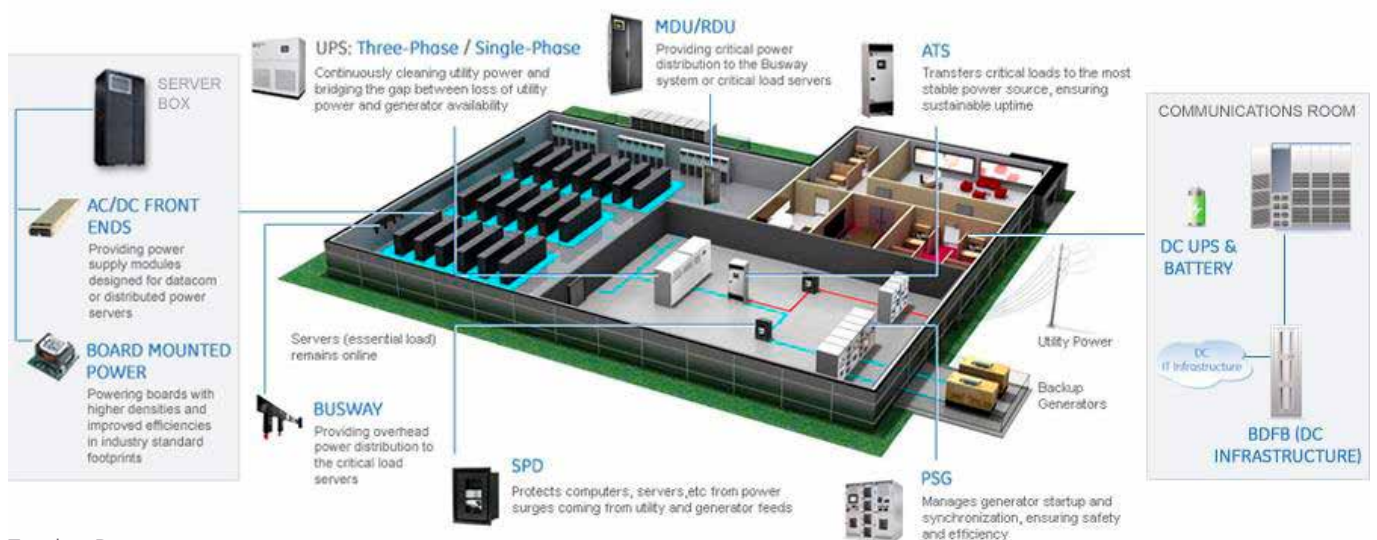
Air/Water Cooled Chillers



Diesel genset power room

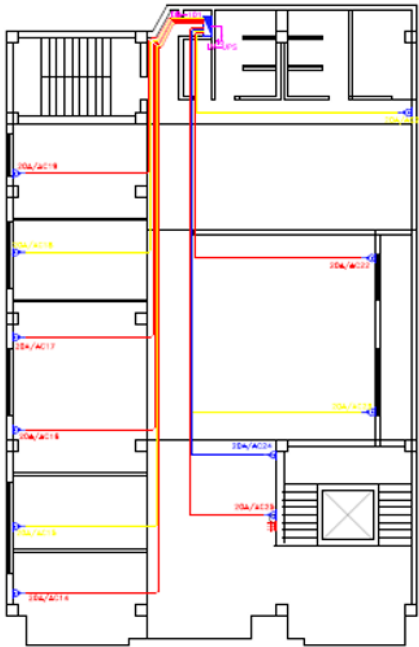


Fire Protection Sprinkles

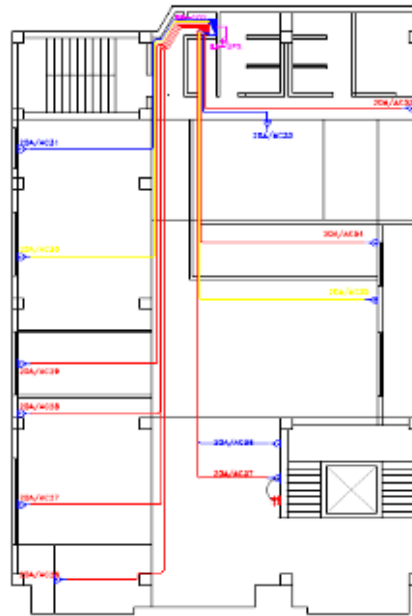


Turnkey Datacenter

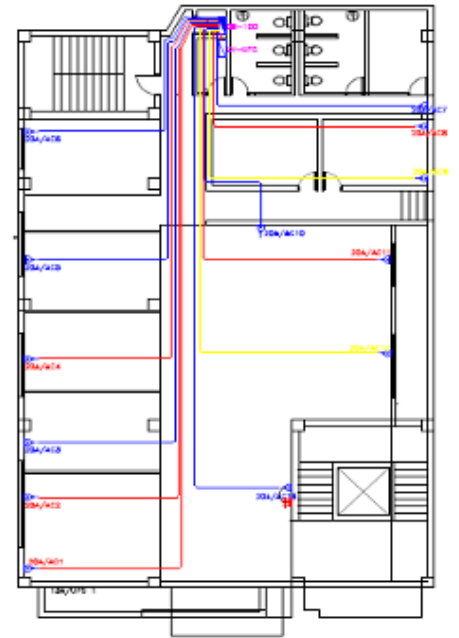
## Central UPS Power Cabling Layout



1st floor

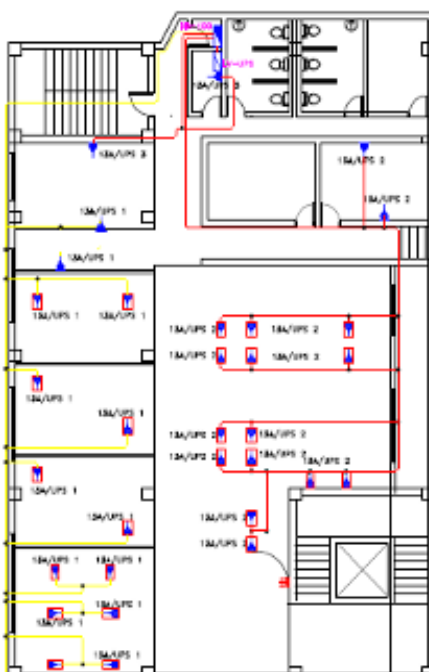


2nd floor

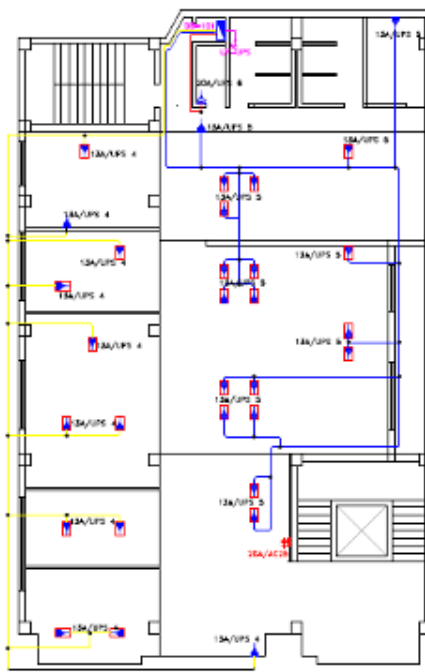


Ground Floor Plan

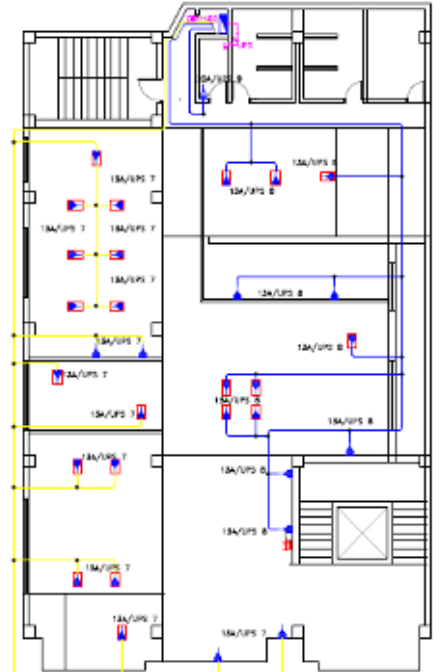
## Central UPS Power Outlets Layout



Ground Floor Plan



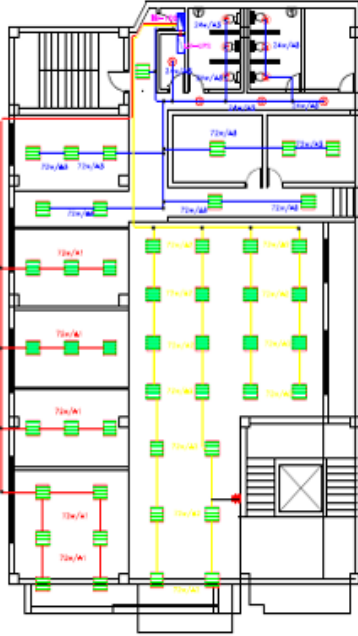
1st floor



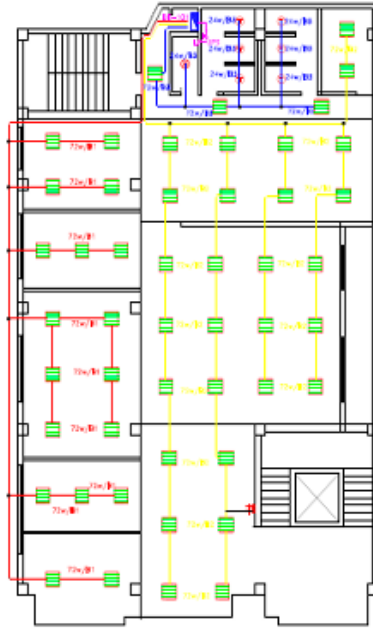
2nd floor



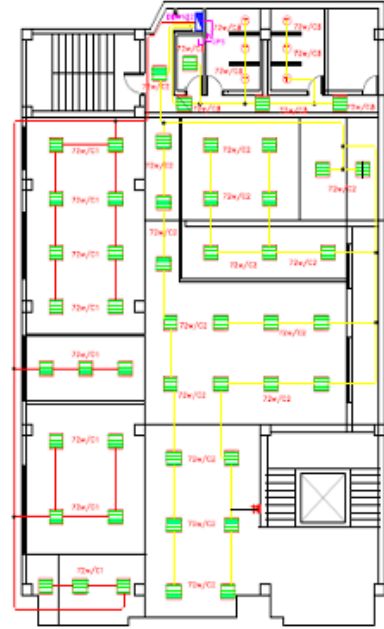
## Central UPS Power Lighting Layout



Ground Floor Plan

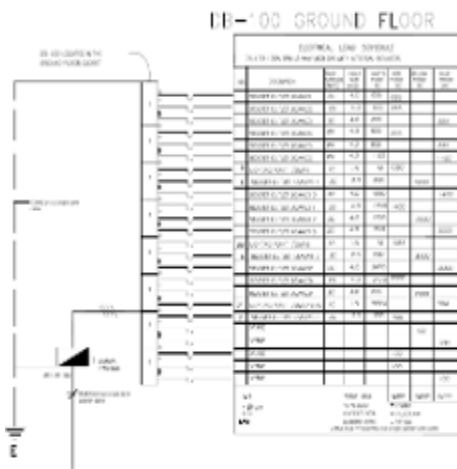


1st floor



2nd floor

## Central UPS Power Load Profile



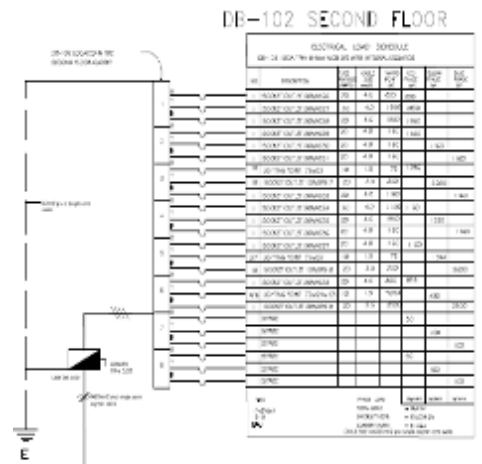
Load Schedule

From LV-UPS



Load Schedule

From LV-UPS

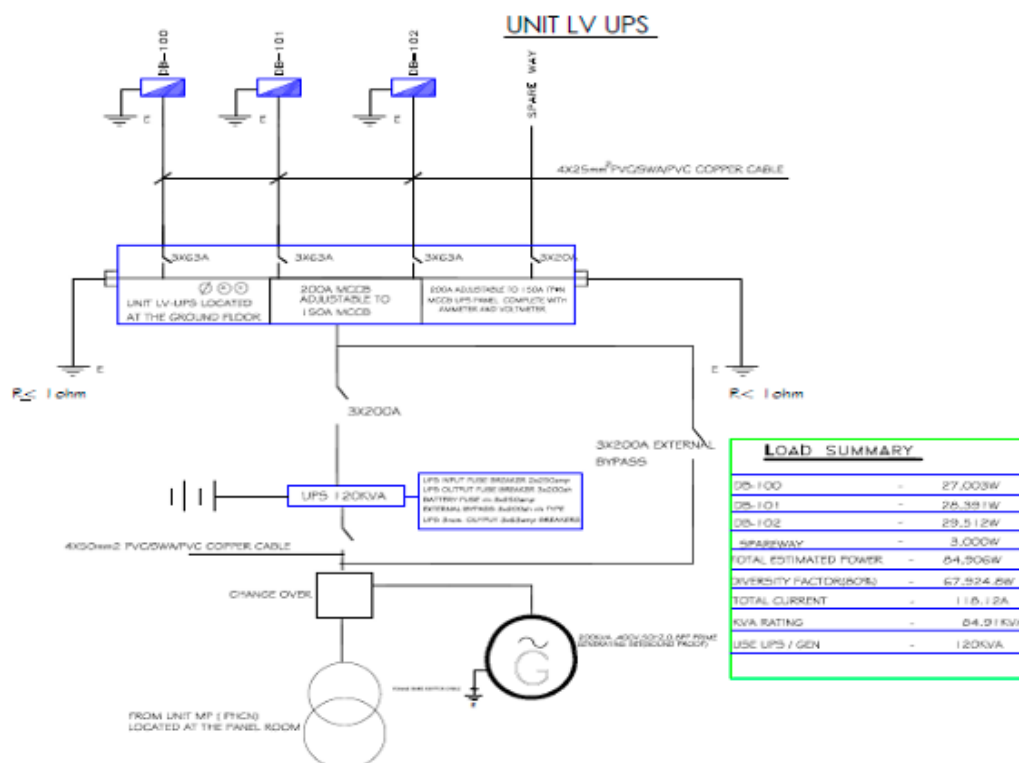


Load Schedule

From LV-UPS



## Central UPS Powered System Layout





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**TURKISH POWER CONVERSION  
ENERGY ELECTRICAL ELECTRONICS ENGINEERING  
CONSTRUCTION  
CONSULTANCY  
EXPORT  
IMPORT**



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**TPC Enerji Elektrik Elektronik Mühendislik  
Danışmanlık ve Dış Tic. Ltd.**

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