

# TPC ENERJI

**ELECTRIC  
ELECTRONICS  
ENGINEERING  
CONSULTANCY  
IMPORT-EXPORT**



**HOSPITALS**



**AIRPORTS**



**HOTELS**



**INDUSTRIES**



**BANKING AND FINANCE**



**OIL & GAS**



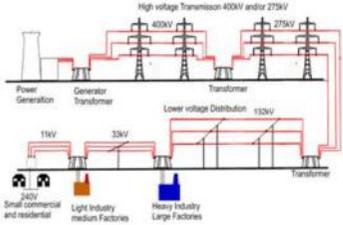
**HOME AND OFFICE**



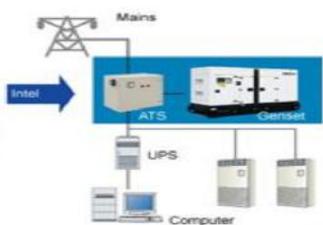
**SOLAR POWER SYSTEMS**



**CONSTRUCTION**



**POWER GENERATION & TRANSMISSION**



**POWER DISTRIBUTION & QUALITY**

**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, scalable 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 European standards in terms of the quality of jobs in required time.
- TPC ENERJI is an international company located in İstanbul, Turkey.
- Head office is registered in Istanbul trade boards named **TPC ENERJI ELEKTRİK ELEKTRONİK DANIŞMANLIK DIS TICARET LTD, STI**
- **ISTANBUL OFFICE ADDRESS:**  
Ugurmumcu Mah. Yunus Emre Cd. Karanfi Sk. Çağdas Sit.  
D blok. Kat:2 -D8 KARTAL/ISTANBUL/TURKIYE
- Nigeria office is registered in Lagos Nigeria as **TPC ENKO NIGERIA LTD.**
- **NIGERIA OFFICE ADDRESS:** 16 B Kemaye Court 3rd Floor Admiralty Rd. Lekki Phase 1
- **LAGOS /NIGERIA**

**• AREAS OF ENGINEERING AND CONSTRUCTION SERVICES**

- Railway and subway Engineering.
- Petrol and Gas Services
- Renewable Energy Power plants
- Pumping Stations/ Rafineries and Tank fields
- Energy Santrals
- Factories and Industrial establishments
- Airports
- Industrial Zones
- Hospitals and Health Services
- Hotel and Turism
- Shopping Centers
- Port /Marine/ Army institutions
- Banking and Finance
- Water Transferring Systems/ Waste water Cleaning Institutions

**ELECTRO-MECHANICAL CONTRACTS**

- Ups, Stabilisers and chargers design and supply
- Industrial Power Solutions
- Long Back up and Battery Banks Systems
- Inverters/Charger systems
- **Solar and and Wind Power conversion Systems including solar street lights**
- Medium and Low Voltage Electrical Installations
- Cable, trays and busbarsystems Grounding
- Distrubitions Panels
- Load Banks
- Internal and External Lighting,
- Electrical Automation Systems
- Air flowing Systems
- Air Conditioners
- Heating Systems
- Health Structures
- Fire Protection Systems
- Automated Control Systems
- Building Management Systems
- High Pressure Air Control
- Isolations Systems
- Water Pumping Stations

- Telephone and data systems
- Cominications Systems
- Fire Protection Systems
- Alarm Systems
- TV and Camera Systems
- Fiberoptical Cabling
- Electrical Heating
- Power Factor Corrections Systems

**CONSTRUCTION WORKS****SERVICE AND MAINTENANCE CONTRACTS****MECHANICAL ELECTRICAL CONSULTING (MEP)****IMPORT AND EXPORT****GENERAL TRADING AND MORE0**

**TPC ENERJI 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 tranmission up to 150 MVA
- 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 distributon 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
- Internatinal trade by doing Turkish Manufacturers distributorships

## SOLUTION PARTNERS AND DISTRIBUTORSHIP

UPS-INVERTER-CHARGERS-STABILISERS-STTS/ATS-CONVERTERS-SOLAR HYBRID SYSTEMS MANUFACTURERS



DIESEL-GAS-FLEXI FUEL GENERATING SETS MANUFACTURERS



VOLTAGE TRANSFORMERS MANUFACTURERS



SOLAR PANEL PRODUCERS AND LED LIGHTING MADE IN TURKEY



BATTERY MANUFACTURERS



## SOLUTION PARTNERS AND DISTRIBUTORSHIP

LV BREAKERS ,FUSES , METERS , SWITCHES, ENERGY QUALITY MEASUREMENT MANUFACTURERS



CABLE MANUFACTURERS



CABLE TRAYS AND DISTRIBUTION PANEL MANUFACTURERS



HIGH VOLTAGE BREAKERS/ DISCONNECTORS RMU METAL CLAD CELSS MANUFACTURERS



CCTV/INTERCOM MANUFACTURERS



DS SERIES 1-500 KVA



T100-T300 SERIES 5-300 KVA



Quantum Series 1-15 kVA



**Uninterrupted AC power solutions(UPS AND INVERTER) scallable up to 6000 KVA**

**Tescom<sup>®</sup>**

**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**



**Uninterrupted DC power solutions scallable 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**



**Automated Servo Voltage Stabilisers**



# Tescom<sup>®</sup>

Servo Voltage Stabilisers up to 6000 kva  
1 PH+N 110-300 VAC 230 VAC %1-5 OUT  
3 PH+N 220-500 VAC IN/400 VAC %1-5  
OUT

Standalone  
LCD calibration  
Full grid protection and security  
Overload Protection

Static Voltage Stabilisers up to 24000 kva  
1 PH+N 110-300 VAC 230 VAC %1-5 OUT  
3 PH+N 220-500 VAC IN/400 VAC %1-5 OUT

Standalone, Maintenance Free  
Superfast 500 V/Second  
Unique Parallel Connection Ability  
LCD calibration  
Full grid protection and security  
Overload Protection

**PARALLEL REDUNDANT VOLTAGE STABILIZER**

**We Manage Voltage  
You Save Energy**

- Parallel connection for special high power applications up to 24,000kva
- Wide input voltage range up to -40%+40%
- Maintenance-free new technology with Microprocessor controller
- High speed regulation 5 cycle

- High Efficiency (97%)
- CPU controlled thyristor units for power management
- Protection against over load, over temperature, high voltage, low voltage etc.
- "Remote Management System" and software support.



Uninterrupted Solar **HYBRID** inverters scallable up to 6000 Kva  
12-24-48-110-220-405-810 VDC IN /230 VAC OUT 50 HZ 1PH +N  
12-24-48-110-220-405-810 VDC IN /400 VAC OUT 50 3PH+N

Modular or Standalone, MPPT built in internal or external, **CHARGER BUILT IN OR EXTERNAL**  
Telecom/IT or Industrial Type  
Long back up can reach up to **24 HOURS**



- Frequency converters up to 1000 Amper
- 120/208 V, 60/400 Hz - 230/400V, 50Hz / 60Hz (other voltage ranges available)



- Batteries  
VRLA, OPZV, OPZS, TRUCTIONER, GEL up to 3000 AH.

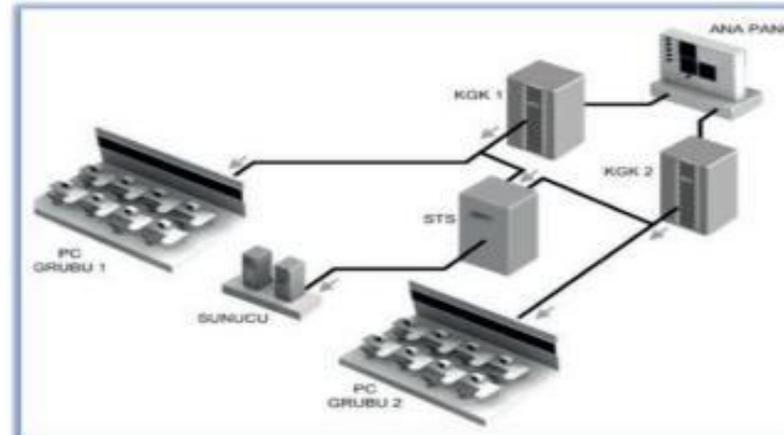




- 220/230/240 VAC 1P + N + G
- 1 Pole if neutral switching 2 pole
- 32-120 amper rack mount



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

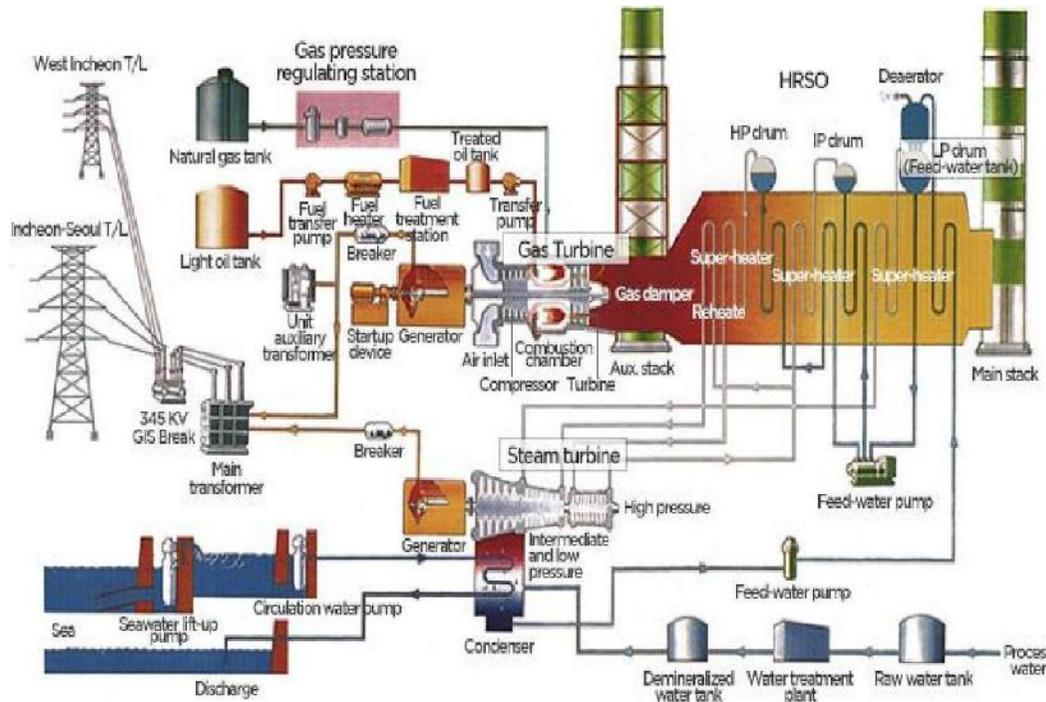
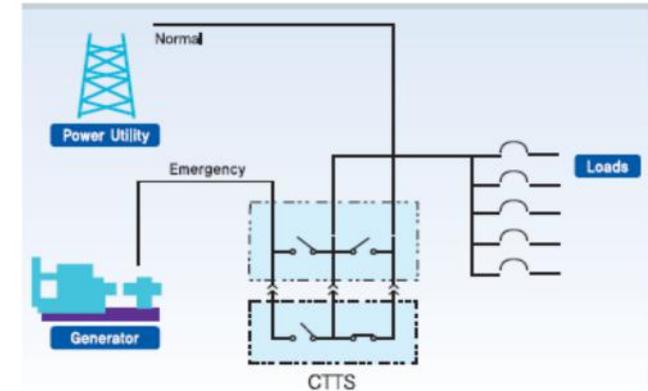


Tescom STS, allows instantaneous transfer of power sources to the load. If one power source fails, the STS switches to the back-up power source so fast that the load never recognizes the transfer made.

#### 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 warrantly
- 10 years spare parts support
- Manufactured according to EC Eirective- EN62310

- 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.





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

- Oil-immersed transformers are used to decrease the 3,3 kV-36KV to less than 1000 V such as 380/400/415 VAC scallable 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.

**ELTAS**

Transformatör Sanayi ve Ticaret A.Ş.

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

- Solar ON-GRID,OFF-GRID RENEWABLE ENERGY solutions to generate electricity from sunshine and able to store in battery banks up to 10 MW .FULL DAY BACK UP



Solar Hybrid 24 h back up system



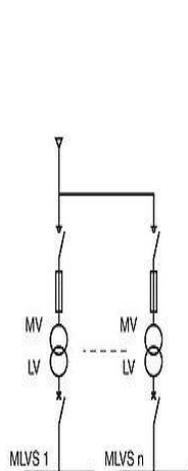
Solar Carport/ parking lots



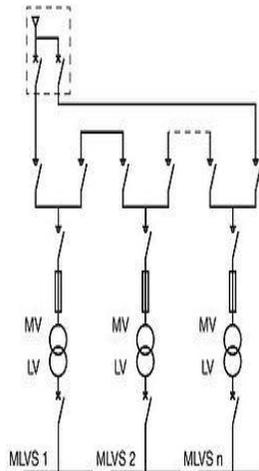
### Medium and Low voltage distribution equipments MV/LV Substations (LV distribution, RMU, Transformer)



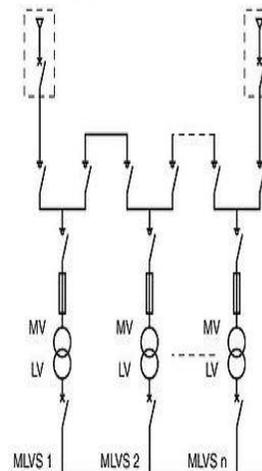
a) Single feeder:



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**

**Distribution Panels**



**Cables and Trays**



**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**

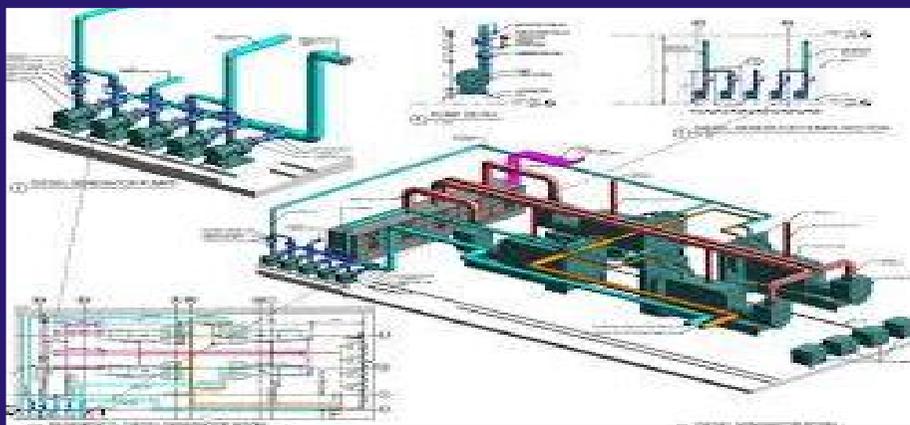


**Ceiling works (Cables-fire protection-AC-lights)**

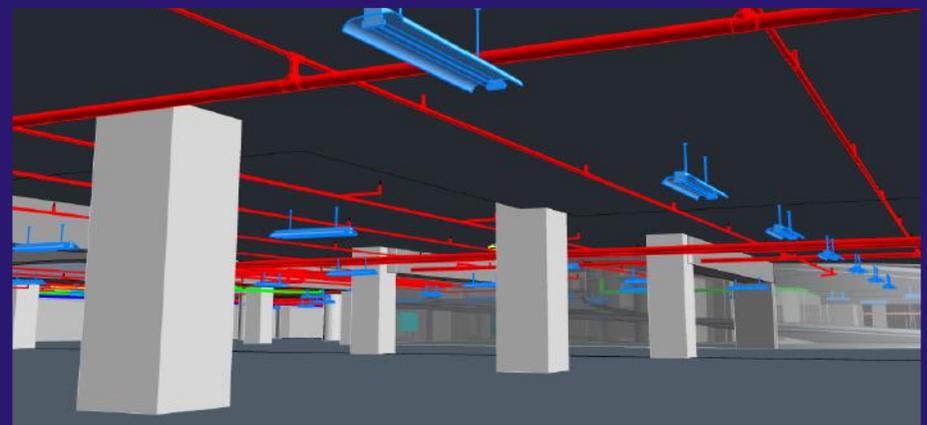


**CCTV solutions for Home and Office**

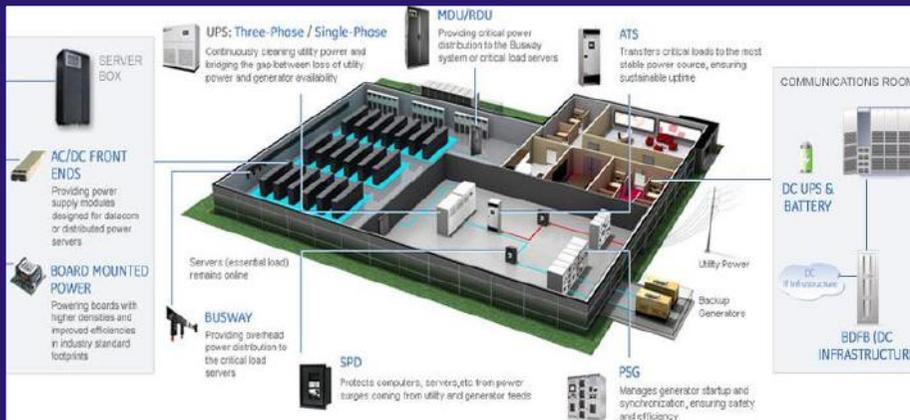
•MEP consulting and auditing, Electrical- Electronics Engineering Contracting and Consultancy



**Diesel genset power room**



**Fire Protection Sprinkles**



**Turnkey Datacenter**



**Air/Water Cooled Chillers**

REFERENCES AND EXECUTED PROJECTS WORLDWIDE

1. DEMOCRATIC REPUBLIC OF CONGO-  
10MW VOLTAGE STABILISERS  
DESIGN, INSTALLATION AND  
COMMISSIONING



2. NIGERIA/KADUNA 1250 KVA STABILISER AND 400 KVA  
INDUSTRIAL UPS 30 MINUTE BACK UP SUPPLY AND  
COMMISSIONING



3. 10 KVA INVERTER/CHARGER  
INSTALLATION WITH 20X12 V 100  
AH BATTERIES A LAGOS TV /RADIO



4. KIRKLARELI TURKEY KAVAKLI MUNICIPALITY 158 PIECES POLES SOLAR  
STREET LIGHTING CONTRACTING



5. YEMEN REPUBLIC 4500 KVA 34KV/11 KV TRANSFORMERS  
SUPPLY





**6.NIGERIA/OKPOHO 4KWP OFF GRID SOLAR PV POWER PLANT DESIGN AND SUPPLY**



**7.MOROCCO SLURRY PIPELINE SYSTEM AC/DC INDUSTRIAL LONG BACK UP UPS SYSTEM DESIGN AND INSTALLATION**



**8.TURKMENISTAN 1600 KVA OUTDOOR AIR COOLED VOLTAGE STABILISER SUPPLY AND INSTALLATION**



**9.MORITANIA 250 KVA-30 KVA-15 - 10 KVA INDUSTRIAL UPS SYSTEM INSTALLATION**



**10.LIBYA TRIPOLI 500 KVA UPS, 40 KVA UPS ,2X3200 AMPER MCCB SUPPLY AND INSTALLATION**



11. SAMSUN TURKEY TOROS FERTILISER PLANT 110 VDC 200 AMPER INDUSTRIAL CHARGER IP54 AND REDUNDANT INDUSTRIAL RACK MOUNT UPS SYSTEM IP54 WITH PROFIBUS COMMUNICATION



12. HOME USE 12-24 HOURS BACK UP INDOOR AND OUTDOOR INVERTER CHARGER SYSTEM WITH SURGE PROTECTOR 3,5 KVA INVERTER CHARGER - CABINET COOLING-EUROPEAN BATTERIES - 48 VDC 2-3 STRING SLIM OR BLOCK BATTERIES



13. CHICASON GROUP 160 KVA TESCOM CENTRAL UPS , 2X40 KVA TESCOM ELEVATOR UPS 1X80 KVA TESCOM MODULAR DATACENTER UPS



14. VICTORIA CROWN PLAZA HOTEL 1000 KVA 320 -450 VAC IN /400 VAC 50 HZ %1-5 OUTPUT VOLTAGE STABILISER DESIGN , SUPPLY, ROOM CONSTRUCTION , CABLING WITH 1X500 MM ARMoured CABLE, 1250 AMPER SCHNEIDER MCCB BUILT IN PANEL , BREAKER AND COMMISSIONING



15. CHICASON GROUP 1200 KVA 320-450 VAC IN /400 VAC 50 HZ %1 -5 OUTPUT VOLTAGE STABILISER DESIGN , SUPPLY, ROOM CONSTRUCTION , CABLING WITH 1X500 MM ARMoured CABLE, 1250 AMPER SCHNEIDER MCCB BUILT IN PANEL , BREAKER AND COMMISSIONING

16. TESCOM 500 KVA 2X250 KVA PARALLEL ONLINE UPS POWERING SECOND EXTRUDER MACHINE IN KADUNA NIGERIA WITH 128 X12 100 AH SPRINTER EXIDE BATTERY DELIVERY AND INSTALLATION COMPLETE SAME CUSTOMER HAD PURCHASED TESCOM 400 KVA UPS WITH 120X 12 V 100 AH BATTERY BACK UP AFTER FIRST MACHINE INSTALLED 3 YEARS AGO



17. Electrical Power cables and materials supply to factory in Opic Industrial Zone Agbara, Ogun State

- Combination boxes, Fuses - Breakers
- NYY ARMoured COPPER 4X16 860 METERS
- NYY ARMoured COPPER 3X120 600 METERS
- NYY ARMoured COPPER 3X25 2240 METERS

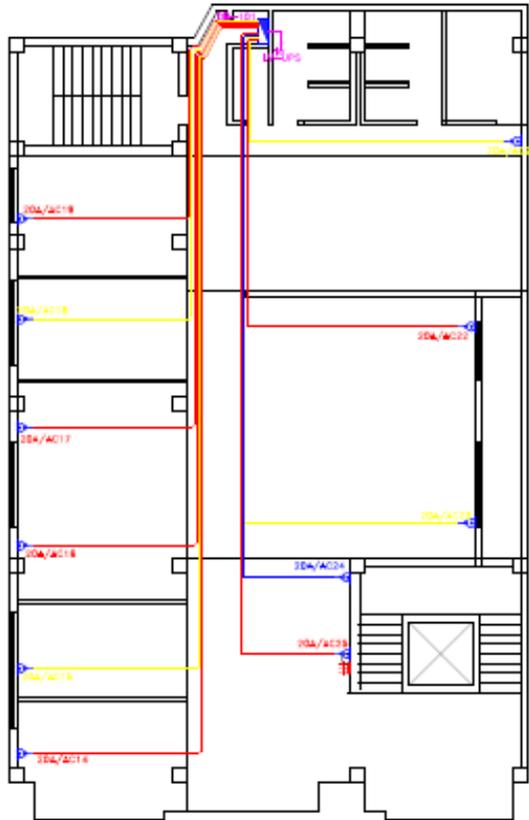


**18. 3 FLOOR OFFICE BUILDING TURNKEY ELECTRICAL-MECHANICAL-CONSTRUCTION WORKS INCLUDING ELECTRICAL-LIGHTING PROJECT, AIR CONDITIONERS DESIGN, DISTRIBUTION PANEL, EARTHEN, SWITCHES POWER OUTLET SOCKETS, CABLING ,CCTV , ACCESS CONTROL, FIRE PROTECTION, CEILING WORKS , LIGHTS SUPPLY AND INSTALLATION, PARTITIONING, CORRECTION WORKS, DATACENTER YSTEM AND WIRELESS INTERNET .TELEPHONY, RECONSTRUCTION OF ROOM AND WASTE WATER SYSTEM RENEWAL, CEILING WORKS.**

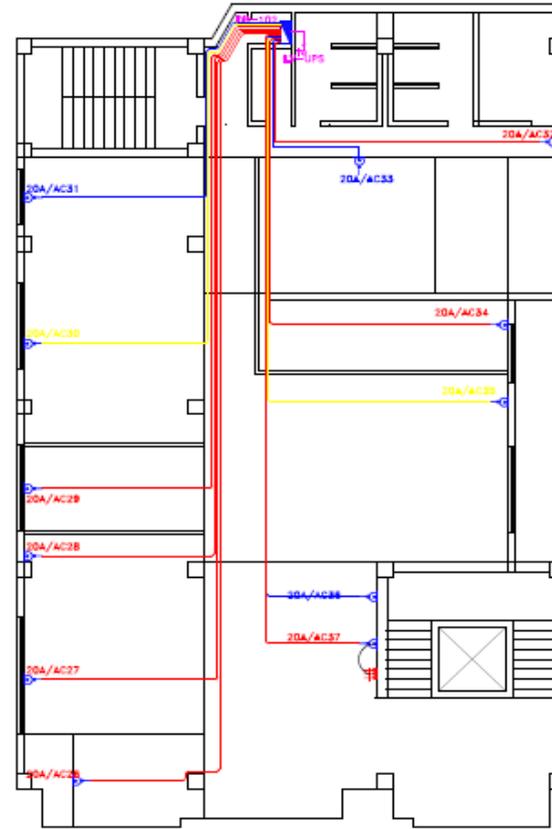




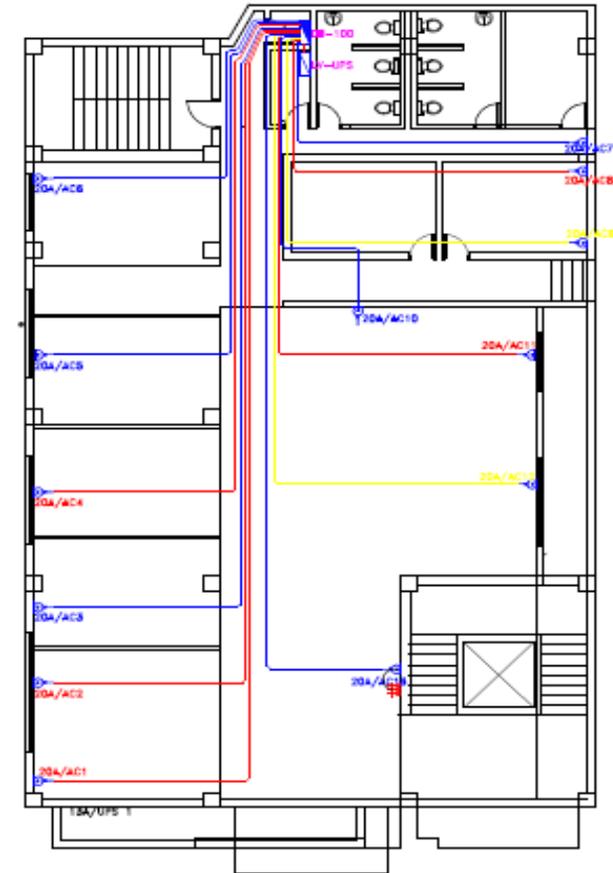
**CENTRAL UPS AC CABLING LAYOUT**



1st floor

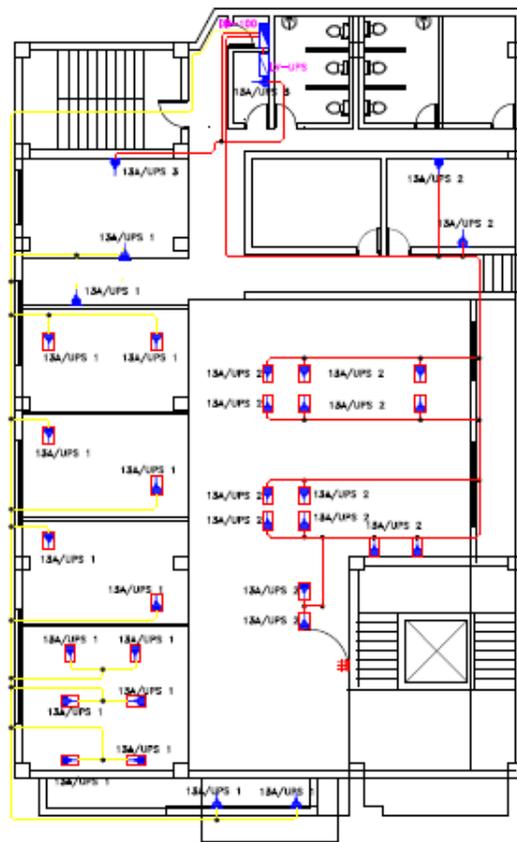


2nd floor

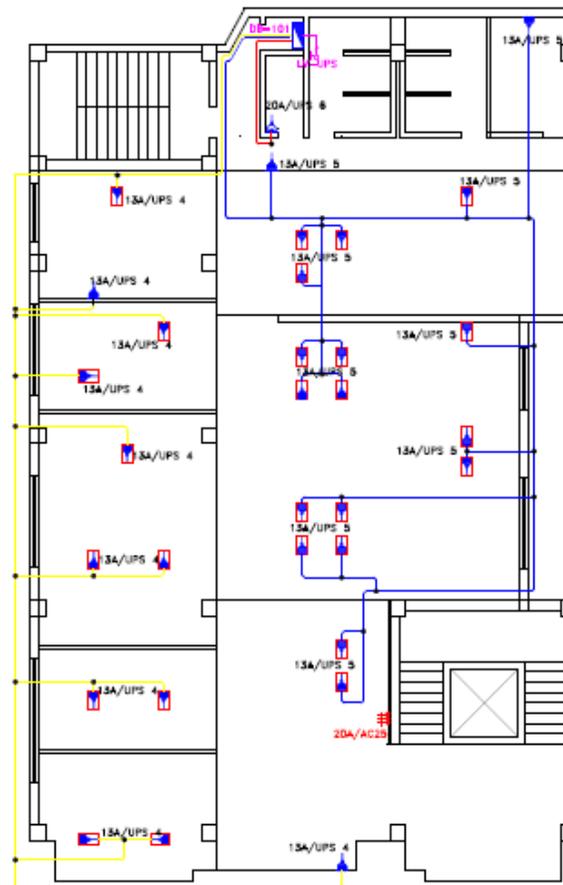


GROUND FLOOR PLAN

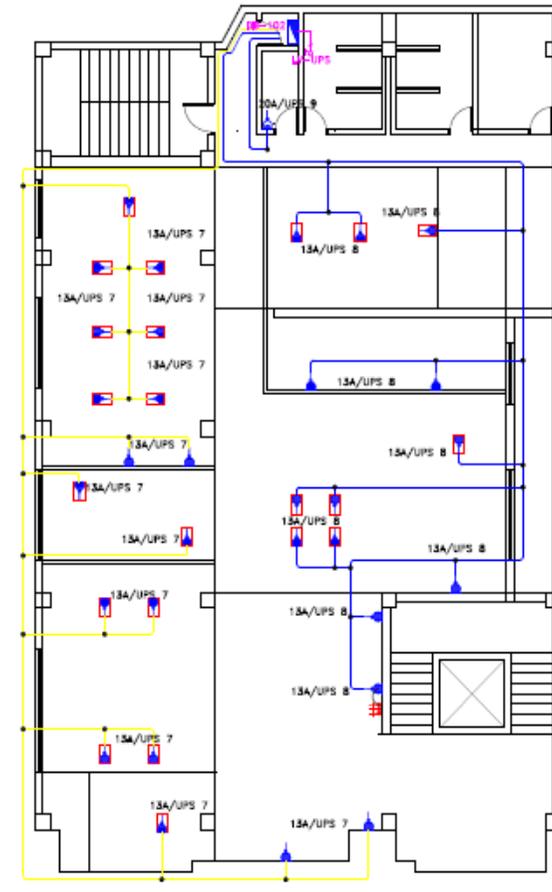
### CENTRAL UPS POWER OUTLETS LAYOUT



GROUND FLOOR PLAN

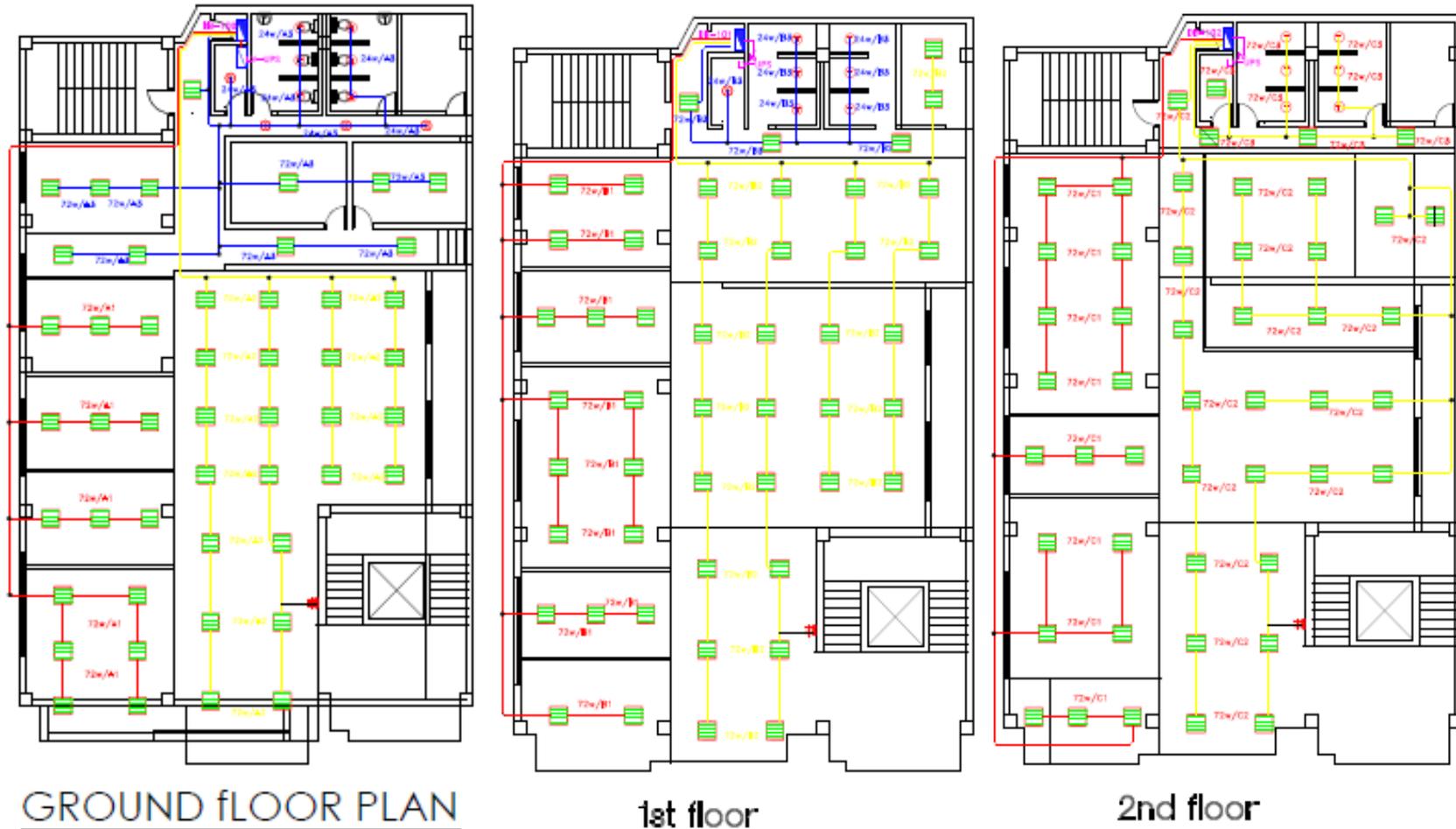


1st floor



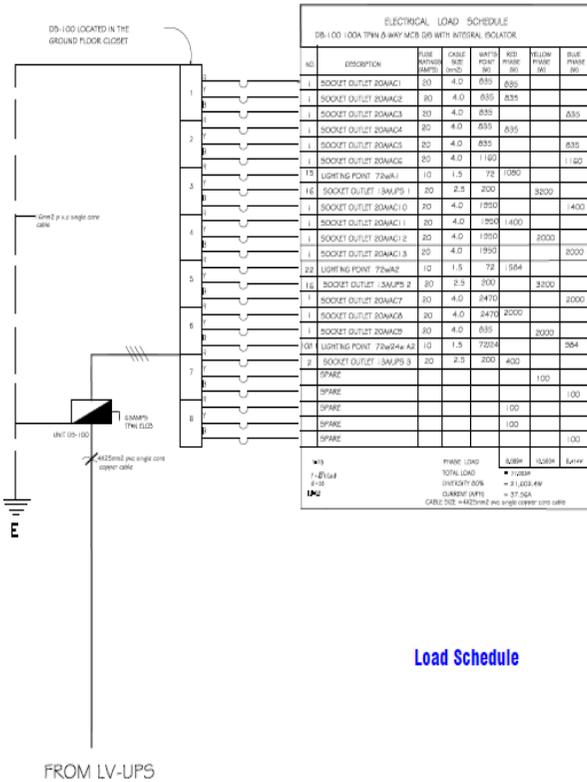
2nd floor

**CENTRAL UPS LIGHTING LAYOUT**



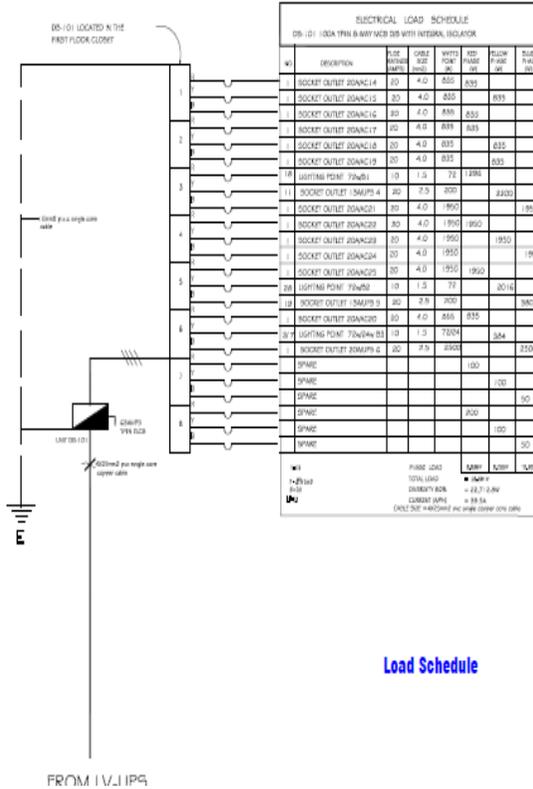
### CENTRAL UPS POWER LOAD PROFILE

DB-100 GROUND FLOOR



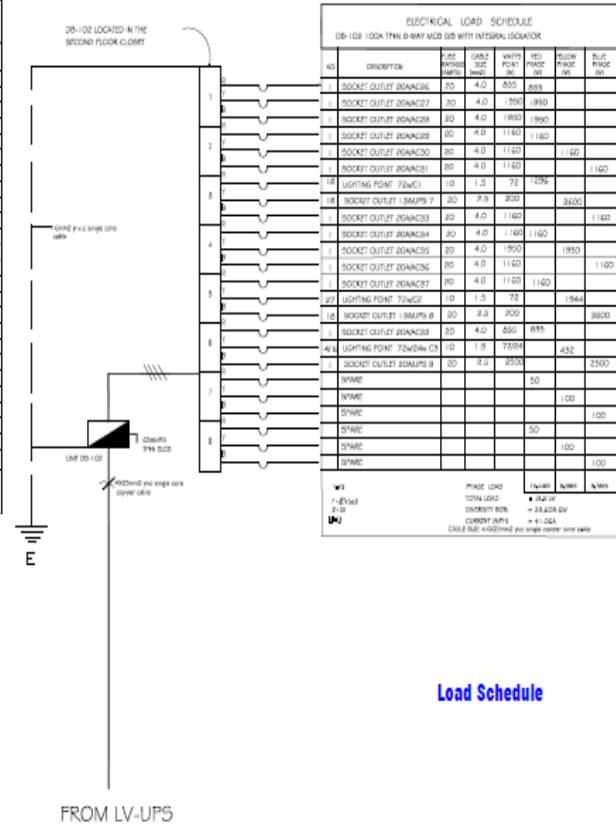
Load Schedule

DB-101 FIRST FLOOR

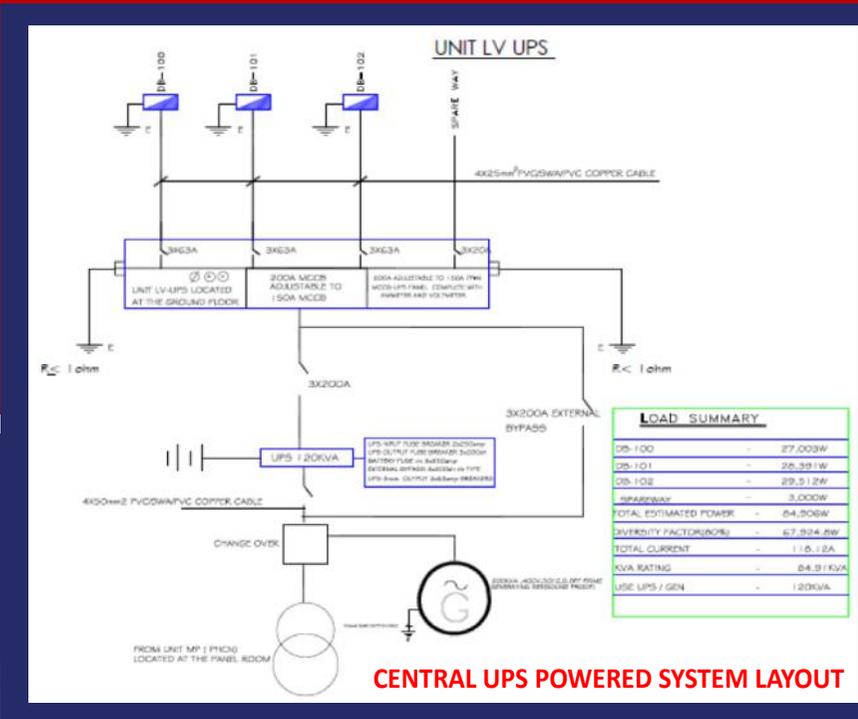


Load Schedule

DB-102 SECOND FLOOR



Load Schedule



**CENTRAL UPS POWERED SYSTEM LAYOUT**

## TPC Enerji Elektrik Elektronik Muhendislik Danismanlik ve Dis Tic. Ltd

Ugurmumcu Mah. Yunus Emre Cd. Karanfi Sk. Çağdas Sit.  
D blok. Kat:2 -D8 KARTAL/ISTANBUL/TURKIYE

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