



TPC ENERJİ

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

Cevizli Mah, Bayburt Sk. No 7/9 A
KARTAL /İSTANBUL /TÜRKİYE
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TPC Enko Nigeria Limited

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sales@tpcenerji.com



- UPS/INVERTERS
- HYBRID UPS
- SOLAR PANELS
- MPPT/CONVERTERS
- AVR/STABILISERS
- BATTERIES
- TRANSFORMERS
- CABLES
- HV/LV BREAKERS
- SERVICE/TRAINING
- DISTRIBUTION
- INSTALLATIONS
- POWER AUDIT

OUR PROFILE



TPC ENERJİ

• ELECTRIC • ELECTRONICS • ENGINEERING • CONSULTANCY
• IMPORT-EXPORT



**10-5200KWP SOLAR
MEGA POWER PLANTS**

www.tpcenerji.com



TPC ENERJI

**ELECTRIC
ELECTRONICS
ENGINEERING
CONSULTANCY
IMPORT-EXPORT**



TPC ENKO NIGERIA LTD.
Uninterrupted Energy and Total Engineering Solutions

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 our European standard in terms of the quality of job in required time.

- TPC ENERJI is an international company located Istanbul Turkey
Head office is registered Istanbul trade boards named **TPC ENERJI ELEKTRIK ELETRONIK DANISMANLIK DIS TICARET LTD, STI**

- **ISTANBUL OFFICE ADDRESS:**
Cevizli Mah, Bayburt Sk. No 7/9 A
KARTAL /ISTANBUL /TURKIYE VD: 8590611969

Nigeria office is registered in Lagos Nigeria as TPC ENKO NIGERIA LTD.

- **NIGERIA OFFICE ADDRESS:** 7A Plot, 18 Grace Anjors Street, off Adebayo Doherty Road, Lekki Phase 1, Eto-Osa, Lagos, Nigeria.



HOSPITALS



AIRPORTS



HOTELS



INDUSTRIES



BANKING AND FINANCE



OIL & GAS



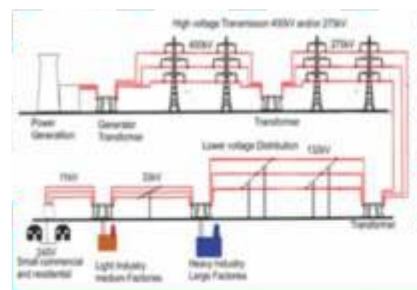
HOME AND OFFICE



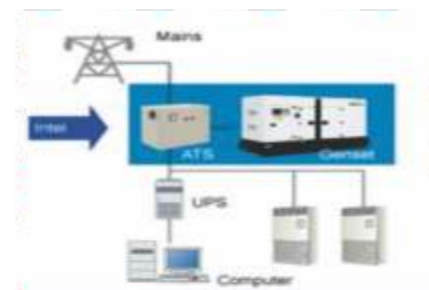
SOLAR POWER SYSTEMS



CONSTRUCTION



POWER GENERATION & TRANSMISSION



POWER DISTRIBUTION QUALITY

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
- Factories and Industrial establishments
- Airport
- Industrial Zones
- Hospitals and Health Services
- Hotel and Tourism
- Shopping Centres
- Ports / Marine/ Army institutions
- Banking and Finance
- Water Transferring Systems
- Waste water Cleaning Institutions

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 busbar systems
- Grounding
- Distribution 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 Control
- Isolations Systems
- Telephone and data Systems
- Communication Systems
- Fire Protection Systems
- Alarm Systems
- TV and Camera Systems
- Fiberoptical Cabling
- Electrical Heating
- Power Factor Corrections Systems

CONSTRUCTION WORK

SERVICE AND MAINTENANCE CONTRACTS

MECHANICAL ELECTRICAL CONSULTING (MEP)

IMPORT AND EXPORT

GENERAL TRADING AND MORE

TPC ENERJI as the capacity to 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 600kva
Inverters up to 6 MVA
Frequency converters up to 6 MVA
Static and Mechanic Transfers Switchup to 4200Amper
Diesel and Gas powered Gensets up to 70 MVA
Transformers and power transmission up to 150 MVA
Batteries VRLA, OPZV, TRUCTIONER, GEL up to 300 AH.

Solar ON GRID, OFF-GRID RENEWABLE GREENER 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 distributionships

SOLUTION PARTNERS AND DISTRIBUTORSHIP

UPS-INVERTER-CHARGERS-STABILISERS-STS/VATS-CONVERTERS-SOLAR HYBRID SYSTEMS MANUFACTURERS

Tescom EDITELEKTRONIK KEK SAN victron energy ELTEK VALERE

DIESEL-GAS-FLEXI FUEL GENERATING SETS MANUFACTURERS

aksa CUKUROVA GENPOWER TEKSAN

VOLTAGE TRANSFORMERS MANUFACTURERS

BEST ELTAS ULUSOY CW Enerji

SOLAR PANEL PRODUCERS AND LED LIGHTING MADE IN TURKEY

Solarfield ALFA ANKARA SOLAR Pelsan ASSAN

BATTERY MANUFACTURERS

akusan inci AKU MONBAT MAKELSAN

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

FEDERAL Sigma ABB Schneider MAKEL EMTES

CABLE MANUFACTURERS

öznur kablo göldar kablo VATAN KABLO

CABLE TRAYS AND DISTRIBUTION PANEL MANUFACTURERS

EAE ÇETINKAYA PANO TEMPA PANO

HIGH VOLTAGE BREAKERS/ DISCONNECTORS RMI METAL CLAD CELSIS MANUFACTURERS

ULUSOY Cellmron

CCTV/INTERCOM MANUFACTURERS

MAS Multitek



Uninterrupted AC power solutions
(UPS AND INVERTER) scalable up to 6000 KVA
1 PH+N, 230 VAC, 50HZ, 1-40 KVA
3PH+N, 400 VAC, 50HZ, 10-800 KVA
Modular or Standalone
Telecom/ IT or Industrial Type
Standard or Long backup



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



Automated Servo Voltage Stabilisers



PARALLEL REDUNDANT VOLTAGE STABILIZER



Servo Voltage Stabilisers up to 6000kva
1 PH+N 110 - 300 VAC 230 VAC%1-5 OUT
3PH+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 24000kva
1 PH+N 110 - 300 VAC 230 VAC%1-5 OUT
3PH+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



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



TPC ENERJI

KONG POWER

LIFEPO4 BATTERY

RECOMMENDED FOR POWER BACKUP SYSTEM, INVERTER AND SOLAR SYSTEM

12.8V 205AH

SPECIFICATIONS		CHARGING SERVICE	
Capacity	205 AH	Charging Mode	CCCV
Nominal Voltage	12.8V	Charging Voltage	13.6V
Max-ON Voltage	15V	Charging Current	0.1C
Working Current	100A	Charging Temperature	0°C-40°C
Working Temperature	0°C-50°C		

3 YEARS WARRANTY

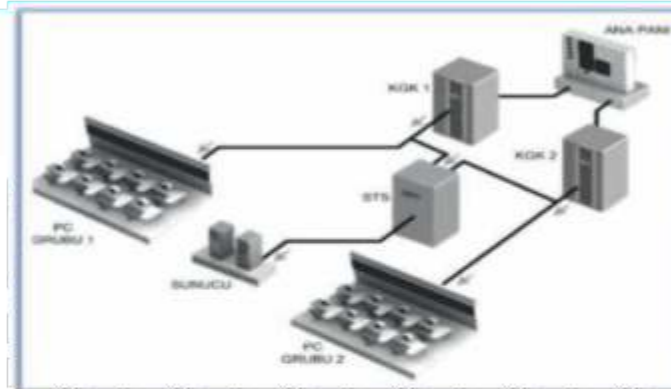


Uninterrupted Solar HYBRID Inverter scallable up to 6000Kva
12-24-48-110-220-405-810 VDC OUT 50 HZ 1PH +N
12-24-48-110-220-405-810 VDC IN / 400 VAC OUT 503H7 +N
Modular or Standalon, MPPT built in internal or external,
CHARGER BUILT IN OF EXTERNAL
Telecom IT or Industrial Type
Long backup can reach up to **24 HOURS**





- 220/230/240 VAC 1P + N + G
- 1 Poleif neutrals switching 2 pole
- 32-120 amper rack mount



**380/400/415 VAC 3P + N + G
AND 4P 32800 AMPER Stand
alone**



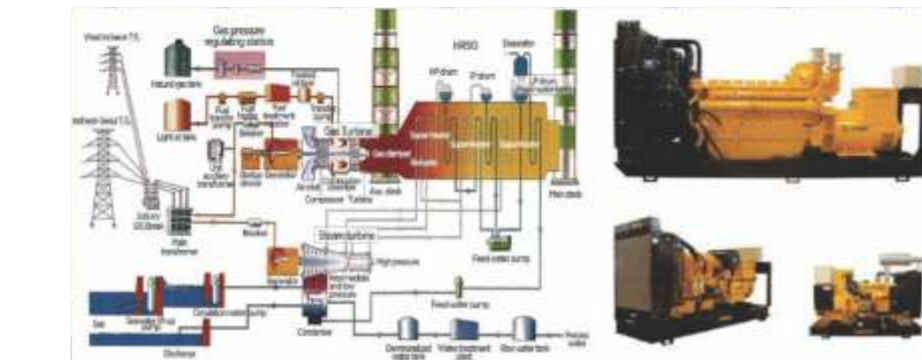
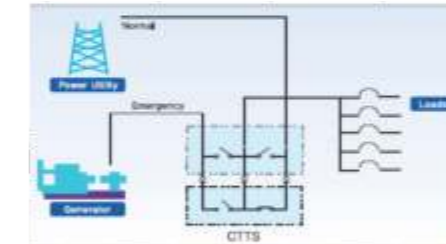
- Frequency converter up to 1000 Apera
- 120 / 208 V, Hz230 / 400V, 50Hz /
- 60Hz other voltage ranges available

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

Increase power quality

- Increase 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 year warranty
- 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, 50HZ and 11,000 VAC, 50HZ selectable
- Tropical motors and Alternators such as CAT - PERKINS CUMMINS
Motors Selection depends on environmental design



• Dry type Transformers up tp 25 MVA with maximum voltage rating 36KV

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



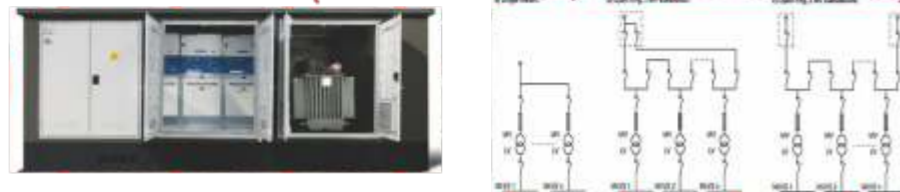
• Oil-immersed medium voltage powered transformers 500kVA to 4000kVA up to 110. These transformers mostly used for city transmissions, larger production facilities power plants

• Large power transformers are scalable up to 250 MVA, 420 KVA 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 up to 10 MV. FULL DAY BACK UP.



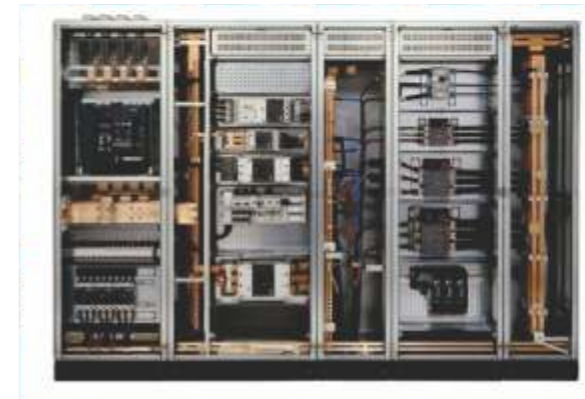
Medium and Low voltage distribution equipments
MV/LV Substation (LV distribution, RMU, Transformer)



Mccb, mcb breaker, fuses, contactors, capacitors, metres changeovers, Surge Protectors and more



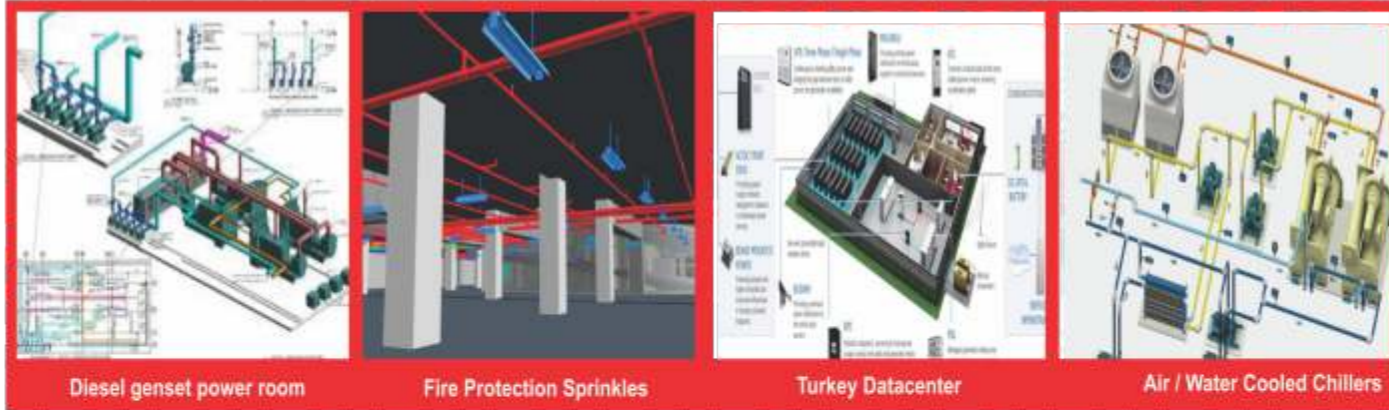
Distribution panels, cables cable tray and busbar systems
Distribution Panels **Busbars for large factories**
Cable and Trays



LED lighting and conventional Partitioning and ceiling works
CCTV Intercom solution Access Control



MEP consulting and auditing Electrical-Electronics Engineering Contracting Consultancy



Diesel genset power room

Fire Protection Sprinkles

Turkey Datacenter

Air / Water Cooled Chillers



Uninterrupted DC power solutions scallable up to 6000 Amper
1 PH+N 230 VAC IN/24 - 48 - 110 - 220 - 405 - 810 VDC OUT
3PH+N 400VAC IN/24 - 48 -110 - 220 - 405 - 810 VDC OUT
Modular or Standalone
Telecom/ IT or Industrial Type
Standard or Long backup

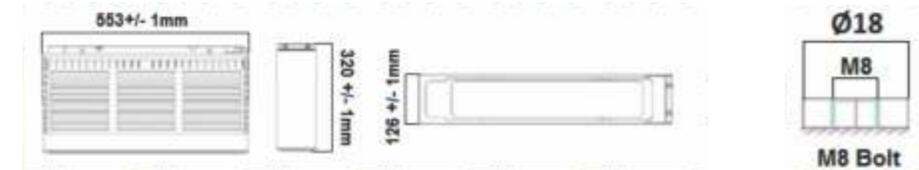
12 MAST 190 12 MAST 210 / YGY12-190 FT Front Terminal AGM Battery

- ✘ Long -Term Storage, High Performance, Truly Maintenance-Free
- ✘ Stable Quality and High Reliability Performance
- ✘ Special Grid Alloy and Production Technology with Advanced Tech.
- ✘ 12+ Year Life Expectancy
- ✘ Excellent Sealing Resistance With Thermales Adhion
- ✘ %99 Recomb ination Capability
- ✘ %100 Quality Control Approved M18 Valve Use
- ✘ Outstanding AGM (A bsorbed Glass Matt) Technology
- ✘ Use of ABS-FR Material according to UL94
- ✘ Battery Design according to 23 "48VDC Cabin Standards
- ✘ Production according to TS EN 60896-21 / 22 Standards



Field of Applications

- ✘ Telecommunication
- ✘ Uninterruptible Power Supplies
- ✘ Electric Power System (EPS)
- ✘ Emergency Lighting Systems
- ✘ Alarm and Security Systems
- ✘ Communication Power Supplies
- ✘ DC Power Supplies
- ✘ Automatic Control Systems



Battery Type	12 MAST-190/ 12 MAST - 210 YGY12 MAST - 205 FT/ 190FT			
Nominal Voltage				
Nominal Capacity	190Ah @ 10 HR 1.8V/Cell @ 20°C			
	187,2Ah @ 8 HR 1.75V/Cell @ 20°C			
	153,3Ah @ 3 HR 1.7V/Cell @ 20°C			
	131,8Ah @ 1 HR 1.6V/Cell @ 20°C			
Dimensions (mm)	Length	Width	Height	Total Height
	553	126	320	320
Weight (Kg)	58,5 ± %5			
Int. Resistance TS EN 60896-21	Max. 3,8 mΩ @ 25°C			
Self Discharge	Max %3Ah/Ay @ 25°C			
Stock Life	Requires Charging After 6 Month @ 25°C Standby Period.			
Operating Temperature	Discharge	-40°C/+71°C		
		-25°C/+60°C (Charging must be balanced according to temperature)		
	Normal	-40°C/+71°C		

MONBAT®
BATTERIES

SOURCE OF POWER

No TDS-112, Issue date: 12.2021

12MVR200 FRONT TERMINAL AGM VRLA

PRODUCT CHARACTERISTICS:

- Valve-regulated lead-acid battery
- Stationary and reserve power applications
- EUROBAT design life definition: Very Long Life 12+ years
- Extremely long float life performance
- Superior cycling endurance
- Compact design with high energy density
- ETSI Rack integration
- Low installation cost, maintenance free product
- Sealed for leak-proof operation
- Delivered ready for use
- Non-hazardous cargo for ground, sea and air transport
- Fully recyclable product



TECHNICAL SPECIFICATIONS:

Electrical specifications:	
Nominal voltage:	12V
Number of cells:	6
Rated capacity:	190 Ah (10 h rate to 1.80 Vpc at 20 °C)
Internal resistance:	3.9 mOhm (IEC 60 896 -21/22)
Short circuit current:	3 150 A (IEC 60 896 -21/22)
Float charge voltage:	2.27 V per cell (Vpc) at 20 °C
Design features:	
Design life at 20 °C:	Very Long Life 12+ years
Plates:	Tick Flat Pasted
Active material:	Very high purity virgin lead
Grid alloy:	Lead-Calcium-Tin alloy
Electrolyte:	Sulphuric acid, Analytical grade
Separator:	Absorbing Glass Mat (AGM)
Operating temperature:	-20 °C to +60 °C +15 °C to +25 °C (recommended)
Venting valve:	Rubber, one way, self resealing - Opening pressure: 1.7 PSI - Resealing pressure: 1.5 PSI
Internal gas recombination efficiency:	more than 99%
Flame arrestor:	Available
Central degassing system:	Available
Storage temperatures:	-20 °C to +40 °C
Self discharge:	Less than 2.0% per month at 20°C
Storability without recharging:	Up to 6 months at 20°C
Shelf life:	Up to 1 year
Container / lid material:	Shock resistant ABS FR; flammability class UL94 V0
Terminal position:	Front
Terminal sealing:	Mechanical + epoxy double sealing
Terminal type:	Brass; Female; M8 thread
Terminal torque:	7 Nm
Transport terminal cover:	Available
Carrying Handles:	Available (2)
Connectors and bolts:	Supplied as standard
Applicable standards and recommendations:	
IEC 60896 - 21/22; EN 50272 - 2; IEC 61427 - 1/2; IEC 61056 - 1; IEEE 1184; IEEE 1187; IEEE 1188	
Manufacture standards:	
ISO 9001; ISO 14001; OHSAS 18001; AQAP 2110	

PHYSICAL CHARACTERISTICS:

	SI Units	US Units
Length	555 mm	21.8 inches
Width	125 mm	4.9 inches
Height	316 mm	12.4 inches
Weight	59.2 kg	130.5 lbs

DRAWINGS:

