



Hybrid Power Systems

TEKSAN



The best choice for your budget, also for the nature...

HYBRID POWER SYSTEMS

Green Energy

- Lower fuel consumption by 65%,
- Reduces CO₂ emission,
- Reduces noise,
- Lower heat emissions.



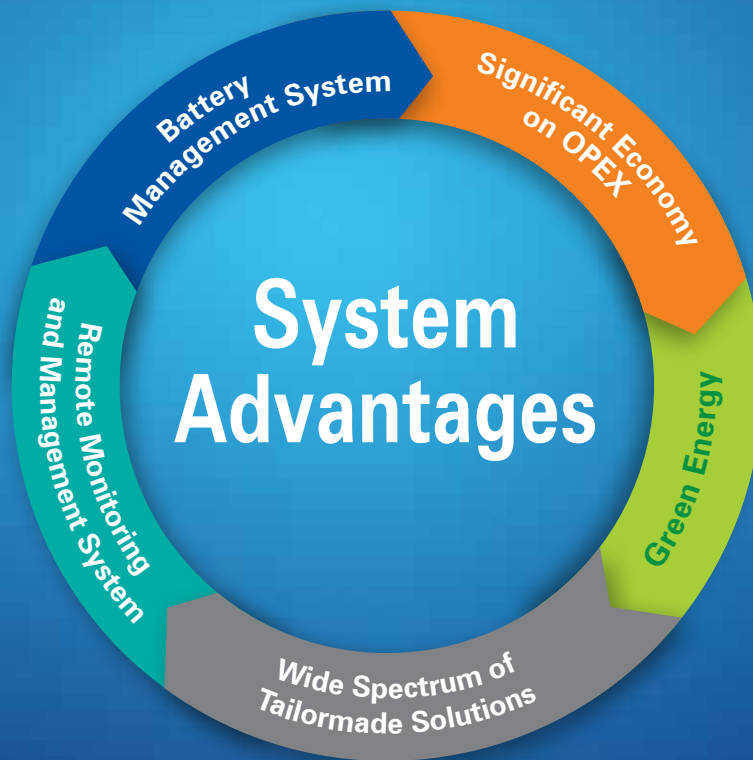
**SPECIALLY
DESIGNED BATTERY SYSTEM
TO RESTORE
OPTIMAL ENERGY LEVEL
FOR YOUR PROJECT.**

Optimum Energy Solutions

- Special system design gives the flexibility of adding renewable power sources to the system at any time.
- All-in-one design with possible lowest footprint saves significant space.
- High tech battery system that is specially engineered for Hybrid power generators ensures the longest and most cost efficient service life.
- Highest charge efficiency and shorter charge time are achieved with unique charging method and latest battery technology

Hybrid Power Systems

Teksan Hybrid system is a complete electrical power supply system that can be easily configured to meet a broad range of power needs.



Application Areas



Telco Projects



Agricultural Projects



Construction Projects



Events

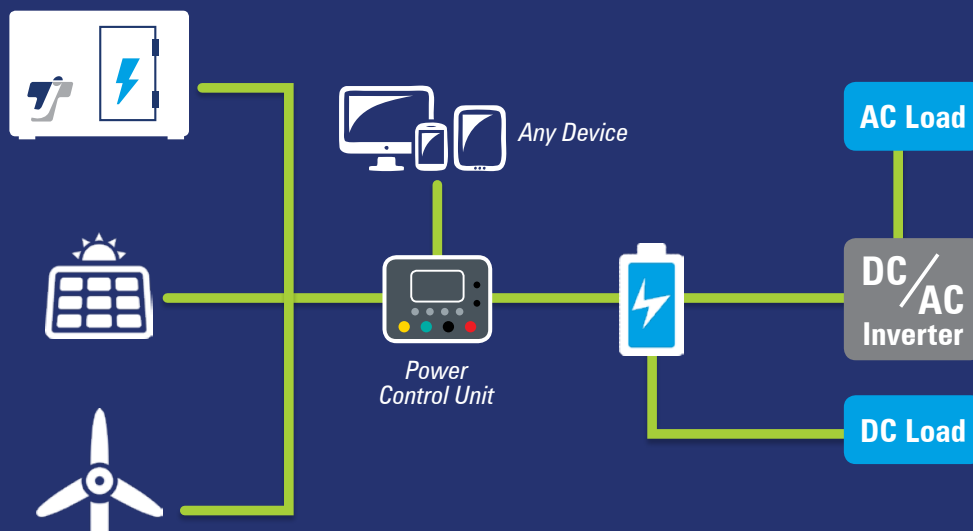


Remote Power



Disaster Relief

How does the system operate?



Significant Advantage in OPEX

 **OPEX**



- **Lower generator operating time up to 80%,**
- Longer service intervals and fewer technical personnel allocation,
- **Lower fuel consumption up to 65%,**
- Reduces pay back period of the investment down to 1,5 years,
- Increases utilization period of the sytem.



Remote Monitoring and Management System

REMOTE SYSTEM

- It is very handy and cost effective to monitor the performance of operation and to interfere the system in case of need from far distances with Remote Monitoring and Management System supported with GSM and internet technologies,
- You do not have to wait until your technical teams' attainment to the site,
- The risk of losing money due to interrupted services minimized because of the lower lag time in physical technical intervention.



Wide Spectrum of Tailormade Solutions



- Thanks to our engineering know-how, tailormade Project experience, high quality components with contemporary technologies, we deliver high efficiency and sound solutions that matches with the specific needs of your projects.



Tailor-made container type canopies can be designed and manufactured for your projects.

TECHNICAL SPECIFICATIONS

	TJ750 HD-PE	TJ1500 HD-PE	TJ2500 HD-PE	TJ4000 HD-PE
SYSTEM OUTPUT				
Average DC Load	750 W	1500 W	2500 W	4000 W
Optimized DC Load Range	500-1000 W	1000-2000 W	2000-3000 W	3000-5000 W
Nominal Output Voltage	48 VDC	48 VDC	48 VDC	48 VDC
Max. AC Load (optinal)	500 W	1000 W	1500 W	2500 W
ENGINE SPECIFICATIONS				
Engine Brand	Perkins	Perkins	Perkins	Perkins
Model	403D-07G	403D-11G	404D-22G	404D-22G
Operating Speed (rpm)	1500	1800/1500	1800/1500	1800/1500
Fuel	Diesel	Diesel	Diesel	Diesel
Interval Maintenance (running hours)	500	1000	1000	1000
ALTERNATOR				
Brand	Sincro	Sincro	Sincro	Sincro
Model	FB4 48-100	FB4 48-200	IB4 48-500	IB4 48-500
Output Power	4,8 kW	9,6 kW	24 kW	24 kW
DEEP CYCLE BATTERY BANK				
Technology	VRLA GEL / Li-Ion*	VRLA GEL / Li-Ion*	VRLA GEL / Li-Ion*	VRLA GEL / Li-Ion*
Type	OPzV cell	OPzV cell	OPzV cell	OPzV cell
Nominal Capacity	300 Ah	600 Ah	1000 Ah	1500 Ah
No. of Cells	24	24	24	24
DoD	50%	50%	50%	50%
Operating Temperature (OC)	-20 to 45	-20 to 45	-20 to 45	-20 to 45
EXPECTED PERFORMANCE VALUES				
Battery Charging Time (hours)	4.7	4.7	4	5.3
Generator Running Hours per Day (hours)	6.9	6.9	6.2	8.2
Engine Maintenance Period (days)	73	146	163	122
Fuel Consumption per Day [liters]	8.9	14.8	24.4	37.5
Fuel Consumption per Hour [liters]	0.37	0.62	1	1.6
Fuel Consumption per kWh [liters/kWh]	0.49	0.41	0.41	0.39
Battery Cycles per Year	536	536	566	563
Battery Service Life (year)	5.2	5.2	5	5
Autonomy without genset discharging time (hours)	23.4	23.4	23	20.5
Fuel Transfer Period (days)	56	34	41	27
HYBRID + SOLAR SYSTEM**				
PV Contribution (kWp)	2.5	3.4	5.9	9.3
No. of PV	10	14	24	38
Engine Running Hours per Day	3.9	4.5	3.9	5.2
Daily Fuel Consumption (liters/day)	4.2	9.3	15.1	23.3
Fuel Transfer Period (days)	120	54	66	43
STANDARD SPECIFICATIONS				
Sound and Weather proof canopy	•	•	•	•
Control Panel with Power section & Protection Devices	•	•	•	•
Deep Cycle Batteries in vented compartment	•	•	•	•
Integrated fuel tank	500 liters	500 liters	1000 liters	1000 liters
Open Source Hybrid Interface	RS232/RS485/GPRS in Mod-Bus	RS232/RS485/GPRS in Mod-Bus	RS232/RS485/GPRS in Mod-Bus	RS232/RS485/GPRS in Mod-Bus

* The data indicated belong to the system designed with VRLA gel battery

** Performance simulation conducted for latitude: 36 40 23:40 and altitude: 27 24 48:54



Some of our References in Telco Industry



- Iceland Telecom Ltd. ICELAND
- Alsys Telecommunication ROMANIA
- Magticom Ltd GEORGIA
- JV Coscom UZBEKISTAN
- Xpress Telecom JORDAN
- Yemen Telecom YEMEN
- Newroz Telecom IRAQ
- Kazakhtelecom KAZAKHSTAN
- Uganda Telecom UGANDA
- TIGO CONGO
- Helios Tower CONGO



Yenidogan Mah. Edebali Cad. No: 12 Sancaktepe - ISTANBUL / TURKEY

Tel: +90 216 312 05 50 Fax: +90 216 312 69 09

E-mail: info@teksangenerator.com

www.teksangenerator.com



+90 444 8576 TKS N

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POWER
TO THE WORLD**



In more than 120 countries