

# CORPORATE PROFILE

2023 *"Anywhere in Which Electricity Touches to Life"*

## CONTACT INFORMATION



**Tamer Hasabou**

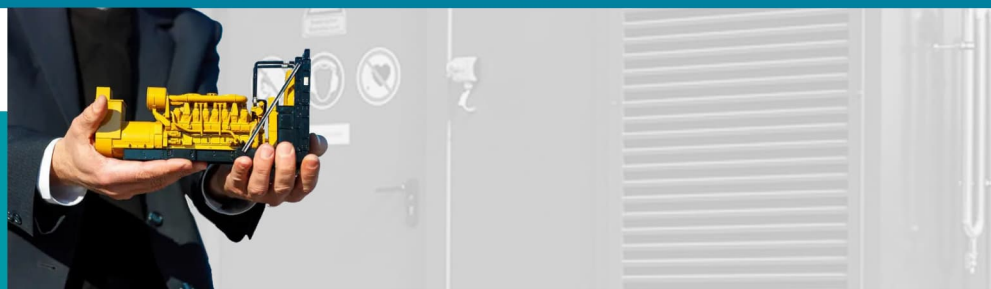
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Leader in Power Generation - Unparalleled Cost Performance





## Why HPS Generators?

**TAKING YOUR PROJECT  
TO THE NEXT STAGE**

In all our products, we reflect our 50 plus years of genset industry experience;

Company we are always looking out for the future... Of our business, of our planet and of the new generations.

So, we are dedicated to developing power generators aligned with a sustainable future, and adapted to our customers' needs and to the ever-changing market demands.

That is why our team works every day to design, produce, and distribute versatile and innovative solutions, complying with Stage V regulations in order to keep our generators' and lighting towers' emissions low.

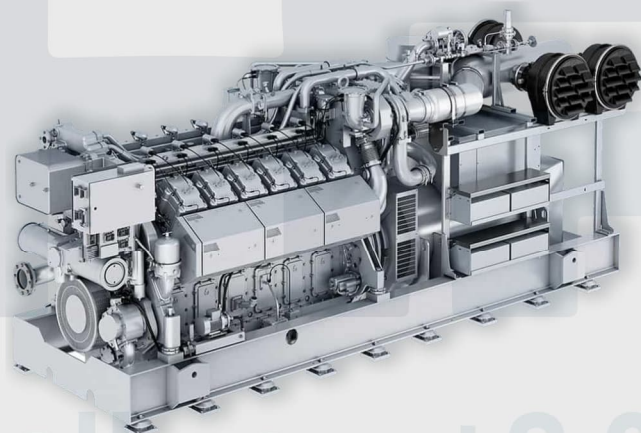
The best Energy is the one that leaves a long-lasting example and a brighter future for the ones to come.

- From the supply stage to the end user, we use "Quality Management Systems",
- We are able to carry out custom tailored engineering for special projects.
- Production and Development is very important for us. We utilize the power of innovation and technology.
- We ensure that all of our components comply with ISO 8528 standards and international standards.
- We are result - oriented, proactively working company. We use quality and safety principles in all of our projects
- We provide 7/24" Call Center Service" for emergency situations.
- We have original spare parts stock for all our products.
- We give attention to the needs and shortcomings of our customers with our specialized staff to provide a trouble free services.
- We offer you the silence that you need with maximum quality with the sound insulation cabinet 75db(A).
- We are always at your service with our quality and reliable after sales service.





# Our Capabilities



## Training

- › Certified Trainers and Facility
- › Engine Overhauling
- › Sizing and selection
- › Application courses
- › Parallel Operation
- › Medium Voltage
- › Controllers & Softwares
- › Customized Courses

## Certifications

- › ISO 9001:2018
- › Type-Test ISO8528
- › IP55 Panel as per IEC529
- › Soncap certification
- › Canopies are certified by Engine manufacturers

## Production

- › From 5 to 5000 KVA
- › Voltages up to 20KV
- › 50Hz, 60Hz, 400Hz & 48Vdc
- › Diesel, Gas and Bi-fuel

## Engineering Solutions

- › PV – Diesel
- › Remote Cooling
- › Battery Storage
- › 20Ft containerized up to 1250KVA – 50Hz
- › Twin genset in 40Ft cont.

## Hybrid Application

- › VSG Hybrid 48V for Telecom
- › Solar Pump
- › PV – Battery storage (grid scale)
- › Residential applications





## Quality Comes First - Our Corporate Values

### Key elements leading to Quality Product!



- Automated Production Lines
- Electrical Wiring & accessories
- Powder Coating Line
- Testing Facility
- Original Components / Quality Suppliers

### Delivering Superior Results

Always being ahead of our customers, suppliers and employees expectations.

### Integrity

Adopt strong business and personal ethics, honesty and truth

### Diversity:

Acknowledge and respect the diversity of cultures, viewpoints and circumstances and accept differing thoughts and ideas.

### Discipline

Adhere to policies, processes and procedures and embrace values to maintain consistent thoughts and deeds for an uncompromised quality.

### Innovation

Apply innovative thinking in all the business aspects in order to maintain our leadership position

### Respect

Loyalty towards stakeholders, common courtesy and corporate citizenship responsibility to serve and improve the communities in which we live.



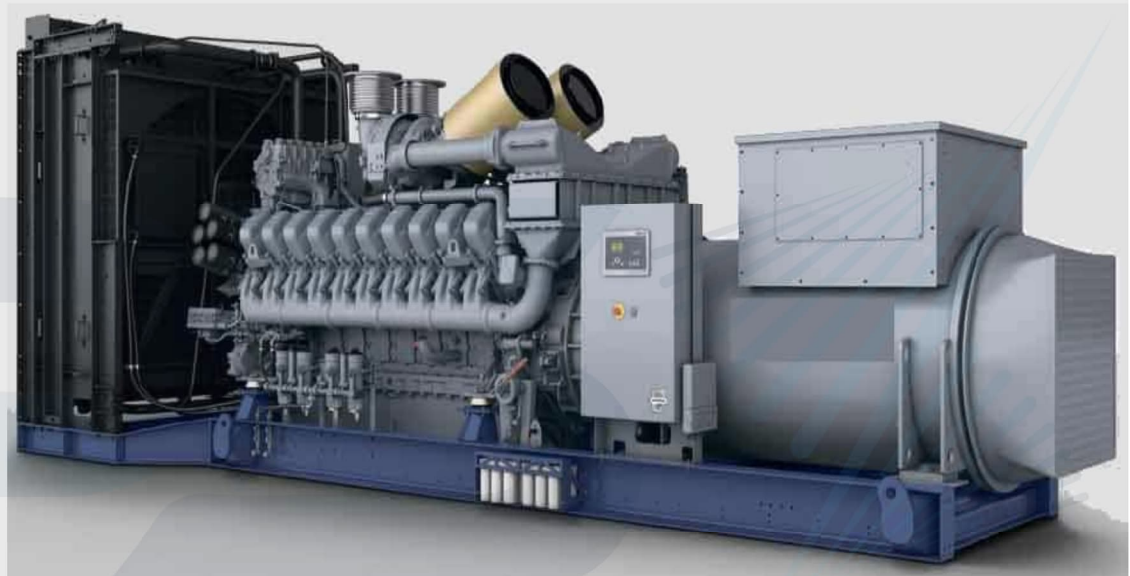
Call us : +2 010 6687 3462



# Diesel Generator Sets

## Low Voltage Diesel Generator Sets (50 – 60 Hz)

- ( 5 kVA – 5000 kVA Diesel Generator Sets )
- ( 50 / 60 HZ 380 - 400 VAC Output )
- ( Open Type , Sound Proof Canopy or Containers )



Our Core Business Summary



# Diesel Generator Sets

## Medium Voltage Generators (3 kV – 11kV)

- ( 500 kVA – 5000 KVA Diesel Generator Sets )
- ( 50 / 60 HZ 380 - 400 VAC Output )
- ( Open Type , Sound Proof Canopy or Containers )



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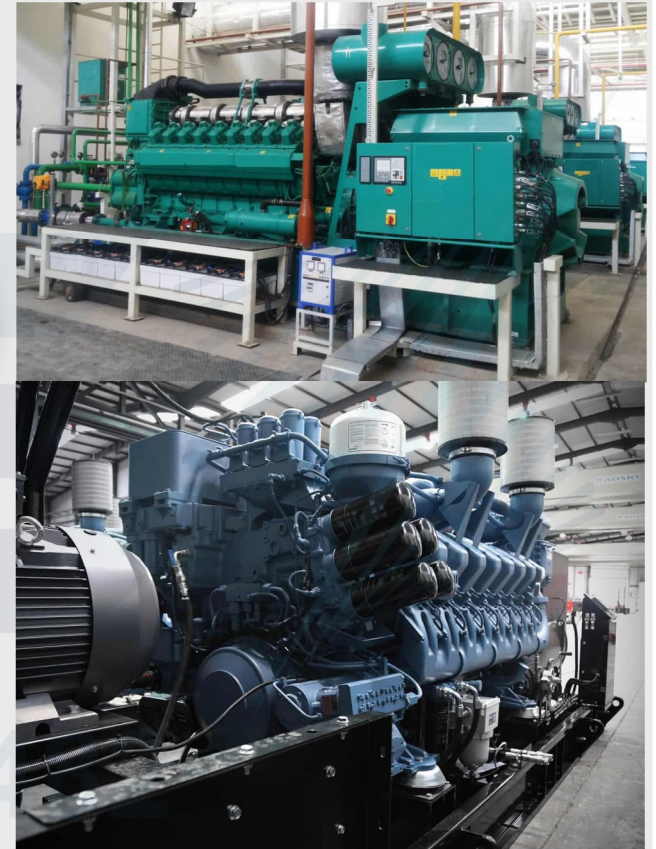
# Power Plants

## Diesel Power Plants

- ( 1 MVA – 100 MVA Diesel Generator Power Plants )
- ( Inside the Buildings or Sound Proof Containers )



## Our Core Business Summary



Call us : +2 010 6687 34



# Power Plants

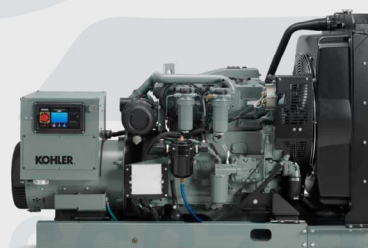
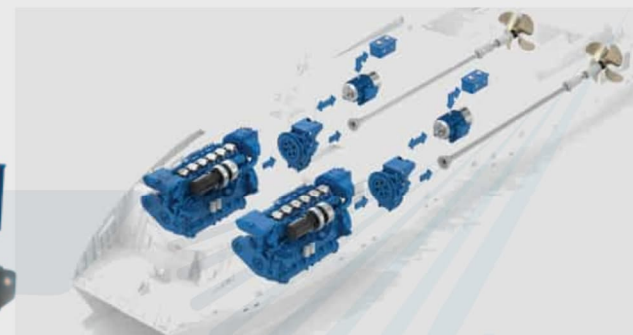
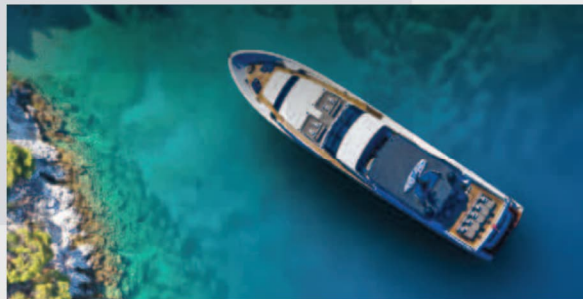
### Natural Gas Power Plants

- ( 250 MVA – 500 MVA Natural Gas Generator Power Plants )
- ( Inside the Buildings or Sound Proof Containers )





# Marine Generators

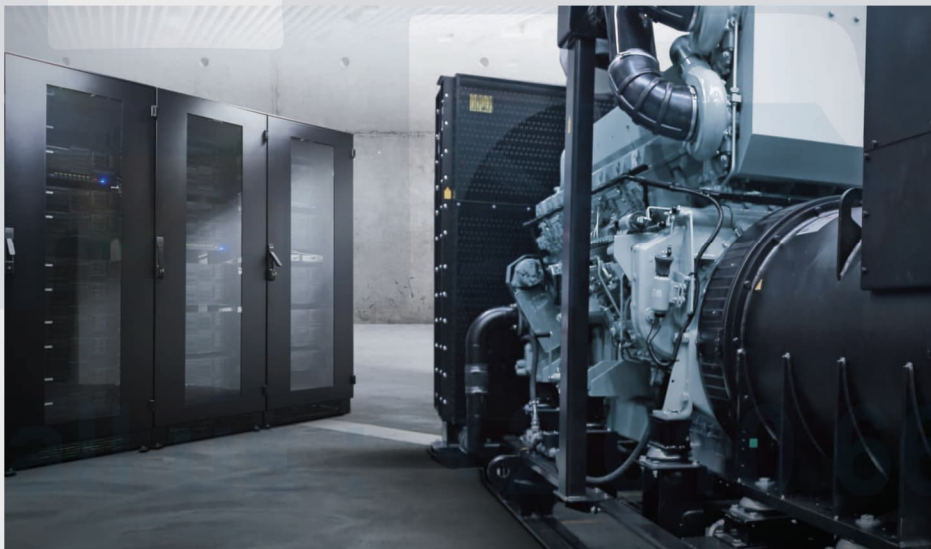


Our Core Business Summary

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## DATA CENTER





## PORTABLE RANGE





# Light Towers



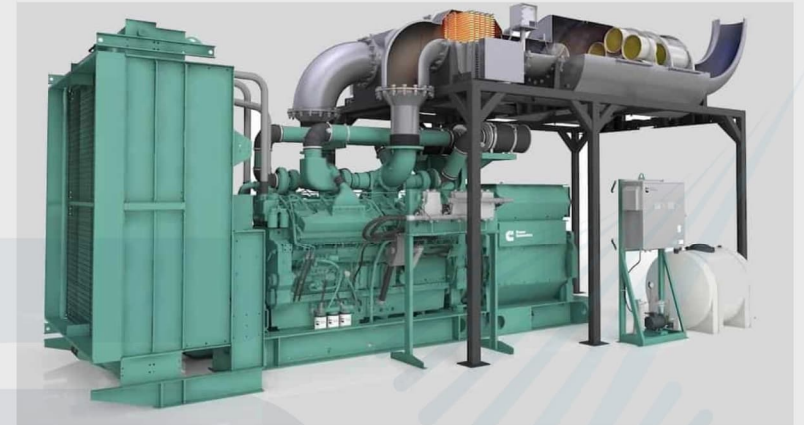


# Diesel Generator Sets

CHANNEL PARTNER



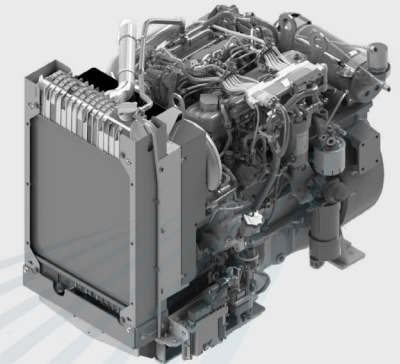
## Partnerships





# Diesel Engine Brands

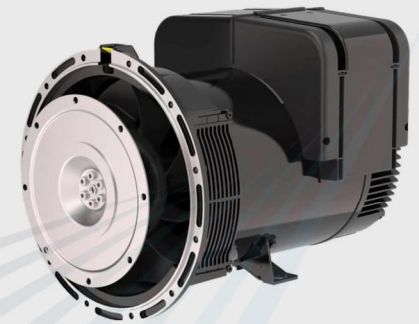
CHANNEL PARTNER





# Alternator Brands

CHANNEL PARTNER



**STAMFORD®**

**LEROY-SOMER™**



Call us : +2 010 6687 3482



# Control and Synchronisation Module Brands

CHANNEL PARTNER



Call us : +2 010 6687 3482



# Containers and Canopies

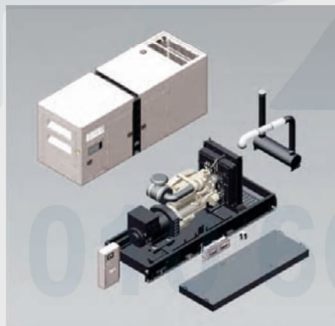




# Containers and Canopies

## Canopies

- Weather Proof Canopies (10 kVA up to 3000 KVA)
- Sound Proof Canopies (10 kVA up to 3000 KVA)



Our Core Business Summary



# Containers and Canopies

## Containers

- Weather Proof Containers (1000 kVA up to 5000 kVA)
- Sound Proof Containers (1000 kVA up to 5000 kVA)  
( 20 ft-40 ft- High Cube-Customized )



Our Core Business Summary



## Mobile Trailer Type

### Standard Mobile Trailer Sets

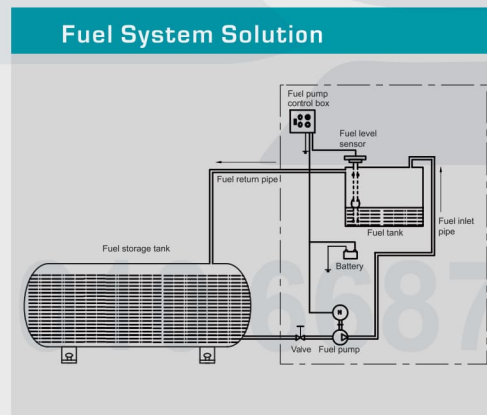
- High Standard Design
- Flexible Regulation Makes Proficiency
- It is widely used in open spaces and outside power site as a common or standby power. At present, trailer type generating sets are widely used in national security, telecommunication, plateau, mining, etc.





## Fuel Tanks and Fuel Automation

- Cubical Fuel Tanks
- Cylindrical Fuel Tanks
- Fuel Tank Automation
- Exhaust Silencers
- Seismic Isolators





# Low Voltage Products

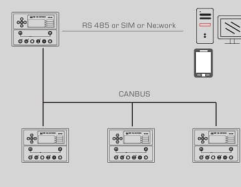
- Automatic Transfer switch (ATS)
- Synchronization Systems



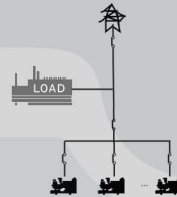
**SIEMENS**

**CHINT**

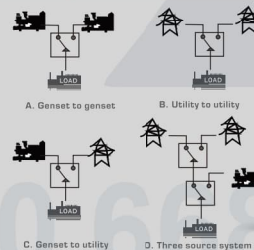
## Remote Control System



## Paralleling System



## ATS System



## Our Core Business Summary





# ISO Rating - Light Loads

## Generator set ratings

Generator set sizes are defined in kVA (kilovolt-amperes) and referred to in detail in part one of ISO 8528— reciprocating internal combustion engine driven alternating current generator sets. There are four ISO 8528 definitions that apply to generator set sizes:

### CONTINUOUS POWER (COP)

A COP sized generator can operate for an unlimited period and at 100% of the rating declared on the generator set data plate.

### PRIME POWER (PRP)

A PRP sized generator can operate for an unlimited period. It is assumed the average load on the generator during 24 hours will represent no more than 70% of the rating declared on the data plate.

### LIMITED TIME RUNNING POWER (LTP)

An LTP sized generator limits the output to 500 hours per annum but can be operated at 100% of the rating declared on the data plate.

### EMERGENCY STANDBY POWER (ESP)

An ESP rating is the highest available rating and limits the generator to 200 hours operation per annum. It is assumed the average load on the generator over 24 hours will represent no more than 70% of the rating declared on the data plate.

There are a number of variations to the above definitions that are uniquely applied by some generator manufacturers. The most common is an addition to the PRP rating in the form of a 10% overload allowance for one hour in a 12-hour period. There is also a relatively new rating called DCC which is specifically for the data centre industry. If you have any questions about generator ratings, talk to us.

### ABOUT Brief

Company supplies, installs and maintains diesel and gas generators, providing customers with products, support and advice throughout the life cycle of their generator set, from 6 kVA to 5,000 kVA.

For further advice, information about generator ratings, talk to us.

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## ISO Rating - Light Loads

### DIESELEC THISTLE GENERATORS

#### THE DANGERS OF RUNNING ON LIGHT LOADS

If an engine is operated on a load of less than around 30% of its rated output, you could waste money and cause damage.

This usually means the engine will consume much more lubricating oil than usual. Look out for an unsightly drip from the exhaust manifold, junction glands or flanged joints.

#### HERE ARE THE REASONS WHY THESE PROBLEMS OCCUR...

- 01 Turbocharger oil seals don't seal effectively on a light load. This means oil is delivered together with the air into the engine air manifolds.
- 02 The cylinder temperatures are too low to ensure all the fuel delivered is burned.

#### HERE'S HOW YOU CAN HELP PREVENT THESE PROBLEMS...

- 01 As much as possible, avoid running on a light load. If you carry out weekly exercising with no load, keep the running period down to around 10 minutes, or until the battery charging rate returns to normal.
- 02 Every year, run the engine or generator set on full load (continuous rating) for four hours. This burns off build-up of carbon in the engine and exhaust system.
- 03 You may need to use an 'artificial load'. The load should be built up gradually from zero to full load over the four hour run.

Remember, if you run the generator without a load, you're not testing how it will cope with a real load. It only proves the set will start and produce power, not how it will perform in real life.

#### STANDBY GEN-SETS

These generators power essential services, so they must be able to connect to the load almost instantly. Used this way, the engine control governor and automatic voltage regulator provide a stable frequency and voltage waveform. However, these vital components aren't tested unless the machine is loaded.

We realise it's not practical for you to carry out your own load tests. Apart from the fact it's difficult to test 100% of load, you probably can't afford the short period of downtime while the generator takes up the load.

#### THAT'S WHY WE RECOMMEND THE FOLLOWING ROUTINE...

- 01 Schedule a 100% full load test using a mobile artificial load bank.
- 02 Install a load bank circuit breaker/ connection point with a shunt trip circuit activated from the mains failure starting signal. This automatically disconnects the load bank, allowing the generator to supply the essential services in the event of a utility failure during a planned load test.



# Maintenance Instructions

[illegible]

### Electric Load List

## تقرير الاحمال الكهربائية

## مقدم التقرير :

التاريخ

اسم المنشأ :

[illegible]

Method Of Starting	Star – Delta	Direct On Line	Soft Starter
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Type of Electric load	تكييف / AC
	مضخات / Pump
	إضاءة / Lights
	سخانات / Heater

\* المسافة بين المكان المقترح للمولد و مكان التغذية الرئيسى :



# Pre-Delivery Inspection

System	Inspect	Check	Comments
Lubrication	Check all connections		
	Check oil level		
	Check protection switch		
Fuel	Check All connections (leaks, etc)		
	Check throttle and governor linkages		
Air	Check air filter pipe work		
	Check vent piping and connections		
	Check air flap and solenoid (if fitted)		
Water	Check and adjust fan belts		
	Check antifreeze/inhibitor and level and top up if necessary		
	Check remote fans and pumps (if applicable)		
	Check radiator core and tanks (leaks, etc)		
DC	Check protection switch		
	Check and adjust alternator belts		
	Check acid level of battery(s) and top up if necessary		
AC	Check condition of lugs and terminals		
	Check PCB lamps and wiring		
	Visually inspect windings		
	Check power connections		
Heater If Fitted	Check circuit breaker and connections		
	Check contractor panel connections and lamps (if applicable)		
Offload Test	Check hose connections		
	Check operation		
	Oil pressure		Bar
	Battery Charging Volts		V
	Water Temperature		degC
Silencer	AC Voltage		V
	Other		
	Check system for fumes		

## Pre-Delivery Inspection - Test Load





# Test Load - Product Testing

## Mechanical running test of Genset:

### Monitoring of the following values at no load:

- Voltage(L-L) & (L-N)
- Frequency
- Speed
- Cooling water temperature
- Engine oil pressure
- DC voltage

### Simulation of the following faults:

- Overspeed
- Overcrank
- Low oil pressure
- High coolant temperature
- Emergency shutdown

## Performance test for Genset

### Load Test:

- 05 minutes warm up
- 05 minutes running at 25% load
- 05 minutes running at 50% load
- 05 minutes running at 75% load
- 10 minutes running at 100% load
- 10 minutes running at 110% load
- Sudden load is approx. 60% of engine prime power at one 1 step.
- Cool down time

### Parameters to be Measured and Recorded during the Test at Set Intervals:

- Voltage(V)
- Current(A)
- Power (KW) for EMCP4.2 & UP
- Power (KVA) for EMCP4.2 & UP
- Frequency(Hz)
- Speed(rpm)
- Cooling water temperature (°C)
- Engine oil pressure (Kpa)
- Charging alternator Voltage (VDC)
- Service hour meter (hr)
- Load test against **resistive only** load banks

## Product Testing Process

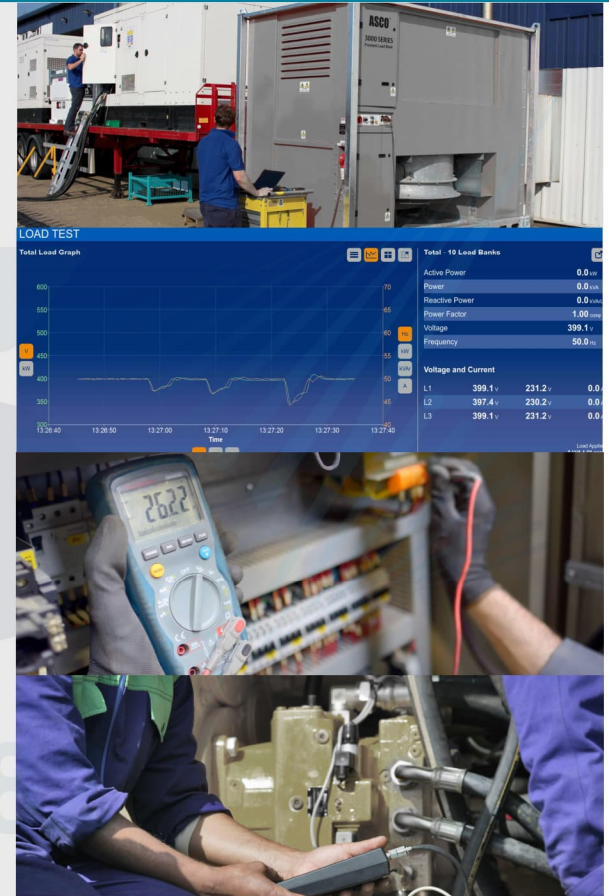
Manufacturer Testing

Site Testing

Maintenance Testing



## Test Load - Product Testing





## Preventative Maintenance Services

### HPS Generators, supplier of diesel generator Quality + competitive price maintenance pieces

- HPS Generators, importer of types of pieces with brands of Cummins, Perkins, Baudouin, Volvo, Mitsubishi, CAT, ATAS Copco having several decades record, was established to provide and supply spare part and after sale services of diesel generators manufactured by valid global companies (Cummins, Perkins, Baudouin, Volvo, Mitsubishi, CAT, ATAS Copco) and attract satisfaction of customers. HPS Generators is responsible to provide after sale services of diesel generators available in Egypt market in order to provide more added value for these products.
- Goals of HPS Generators is to offer spare parts, increase quality and quantity of services, perform orderly condition, offer spare parts with valid global brands and also train servicemen for wide range of after sale services inside and outside of Egypt country. This company has provided peace of mind. for customers by establishing after sale service unit.
- Sale agencies and after sale service units of HPS Generators is the oldest and widest service network at diesel industry of the state. This network has always been a reliable support of diesel generator owners and institutes and attracts satisfaction of customers during years.
- This company has received view of customers about service rendering, quality of diesel generators and quality of parts by customer sound system. Information system is mechanized in this company so that information about diesel generator and need to spare parts is sent to guarantee or commercial unit of the company after selling pieces. HPS Generators has taken great steps in providing suitable after sale services by concluding contract with buyers of diesel generators and sending pieces to them.
- HPS Generators, having specialized service team, is ready to recognize failure and repair diesel generators and all services related to it at the shortest time.



### Repair of diesel motors

To send specialized manpower at the shortest time for recognizing failure and repair the device at pace by travelling team.

1. To repair the device at HPS Generators workshop
2. To repair together with replacement of parts at place
3. To supply equipment and spare parts of diesel generator at the shortest time
4. To increase profit of diesel generator to increase efficiency
5. To repair some failures such as oil leakage, water leakage, no adjustment or failure of fuel pump, replacement of cylinder, piston, ...
6. To replace fuel carrying system and control frequency from mechanical one to electrical one and vice versa
7. Filler of motor for adjusting valves at place
8. To provide kinds of mechanical and electrical spare parts of diesel generator
9. To perform operation of failure finding and repair and replace parts at pace within maximum 48 hours after request
10. To import original parts of (Cummins, Perkins, Baudouin, Volvo, Mitsubishi, CAT, ATAS Copco) diesels in Egypt

HPS Generators guarantees supplying parts and repairing devices due to its commitment for its customer's peace of mind up to 15 years after installation and calculate their fees according to approved table of the HPS Generators.

HPS Generators (diesel generator) has found the fact that emphasizing on customers is the great point and capital of the company.



## Recommended Best Practices

Weekly Procedures	Repairs (as necessary)	Pass/Fail	Inspection Date
Visual inspection of unit – leaks, wear, damage, loose connections/components, corrosion	Correct		
Check engine oil level	Adjust		
Check engine coolant level	Adjust		
Check fuel delivery system – leaks, pressure	Tighten connections		
Check air inlets/outlets for debris	Clean		
Check battery charger – verify voltage and operation	Adjust		
Return the unit to standby setup for operation	When required		

Monthly Procedures	Repairs (as necessary)	Pass/Fail	Inspection Date
Check engine coolant thermal protection level	Correct		
Check gearbox oil level (if equipped)	Adjust		
Check battery electrolyte level and specific gravity (where appropriate)	Adjust		
Check battery posts, cables, and charger – connections, corrosion, proper operation, battery load test	Correct		
Check wiring – connections, corrosion, damage	Correct		
Check engine drive belts, fan coupling device – tension, wear, weather cracking, damage	Correct		
Automatic start and run the engine for at least 10 minutes or until the engine temperature has stabilized. Check for leaks, connections, components, abnormal operating conditions	Correct		

Annual Procedures	Repairs (as necessary)	Pass/Fail	Inspection Date
Engine oil and filters	Change and replace		
Gearbox oil (if applicable)	Change		
Drive belts, fan coupling device for tension, wear, weather cracking, damage	Replace		
Clean and re-cap spark plugs (if equipped)	Replace		
Engine air filters	Replace		
Automatic start and transfer to a load bank (or site load). Exercise it for at least one hour at 100% of the nameplate capacity. Check for leaks, connections, components, abnormal operating conditions	Correct		





## After Sales Network

## After Sales Network

**HPS Generators offer a well-planned service and maintenance program in the Egypt and internationally via our appointed dealers for your area.**

A well-planned service and maintenance program is essential to the operation of any power generation system. Our servicing team and appointed dealers will advise you towards the best package, which is tailored towards you and your budget.

Our 24/7 phone line is there to communicate with you every step of the way and our technical team is always on hand. All parts are 100% genuine to give you the best performance, minimal delay and longevity from your generator.

HPS Generators work with internationally renowned parts suppliers such as Baudouin, Perkins, Cummins, Volvo Penta, Leroy Somer, Stamford, Deep Sea Electronics. Our suppliers have coverage in all four corners of the globe to ensure that our global customers receive the same service and support as our Egypt customers.

**Global company, Local Support – wherever in the world you are.**





## After-sales Support

Always thinking about **product efficiency and customer satisfaction**



### Technical Assistance

Permanent technical assistance, performed remotely by phone or on site.



### Parts

Spare parts supply for industrial diesel engines, alternators and generators of all brands.



### Maintenance and Repair

Integrated and customized monitoring of your equipment, to maximize its usage.



### Solutions and Projects

Tell us what you need. We carry out projects and solutions tailored to every need.



### Start-up and Training

Verification of the installation, of the equipment as a whole, and conduction of functional assays.

## TECHNICAL SUPPORT



Egypt and International  
freight available



24/7 call outs,  
365 days a year with  
nationwide coverage



Tailored service packages  
for any size kw or kva



Minor or Major servicing  
contracts available



Full service documentation



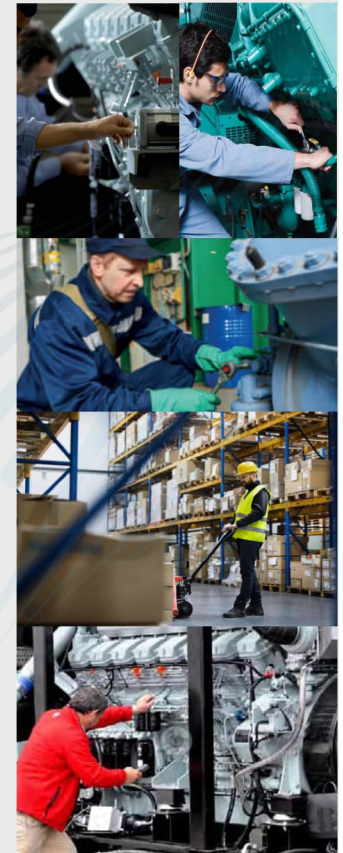
On-site installation &  
commissioning packages



Annual load testing



Free consultation  
over the phone





# References



and many more critical applications, wherever and whenever you need backup power.



Construction



Industry



Military



Police



Telecommunications



Data Centres



Healthcare & Hospitals



Oil and Gas



Agriculture



Residential



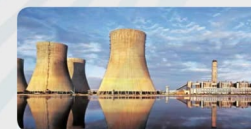
Water and Waste Treatment



Transport & Railways



Events



Power Plants



Airport



Marine & Offshore

## References

HPS Generatorshas experience in manufacturing generators for various applications, using a dedicated production line ensures the products are designed and produced as per your requirements, whether you are in the Egypt or overseas.



# Photo Library



## Photo Library





#### SERVICE/SUPPORT

Continued service and support of our customers and products after the sale.



#### TRAIN

Providing education and training to customers to help them understand their products and equipment.



#### DELIVER

Continue to be exceptionally responsive to the customer and deliver products to meet customer's timelines.



#### MANUFACTURE/DISTRIBUTE

High quality manufactured products to meet the needs of the ever changing power solution market.



#### DESIGN

Our engineering staff can help assist you in procuring and designing products for any application need.



#### RELATIONSHIP

With each and every one of our current and prospective customers/markets we hold a great value in upholding a successful working and personal relationship.

We Are.  
We Think.  
We Act.

THANK YOU  
Your Power.  
Our Passion.

THIS  
IS NOT  
THE  
END

#### CONTACT INFORMATION



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