



DENYO AGGOUR Diesel Generator Company

شركة دنيو عجور للمولدات الكهربائية

Your Power Our Power

قوتنا قوتك





DENYO AGGOUR Diesel Generator Company

شركة دنيو عجور للمولدات الديزل

نحن نفخر دائماً  
بخدمة عملائنا المتميزين  
ويسعدنا أن نكون شركاءكم  
في النجاح

We are always proud of  
our special customers **service**  
and we are pleased to be your partner  
in **success**

## Chairman Message

We greatly thank Allah for successfulness, and all Appreciation and Loyalty to our clients.

It is a great pleasure to see DENYO AGGOUR company has been making success and growth all through the past decades.

We have managed ourselves in DENYO AGGOUR to provide the newly best Diesel Generator services, thus we are one of the market basis well known in this business area, we have established many accomplishments and successes in the Egyptian Market and with biggest companies, our achievements record is the best witness upon level of services and aspirations to be one of the best companies in the field of power generation and its services.

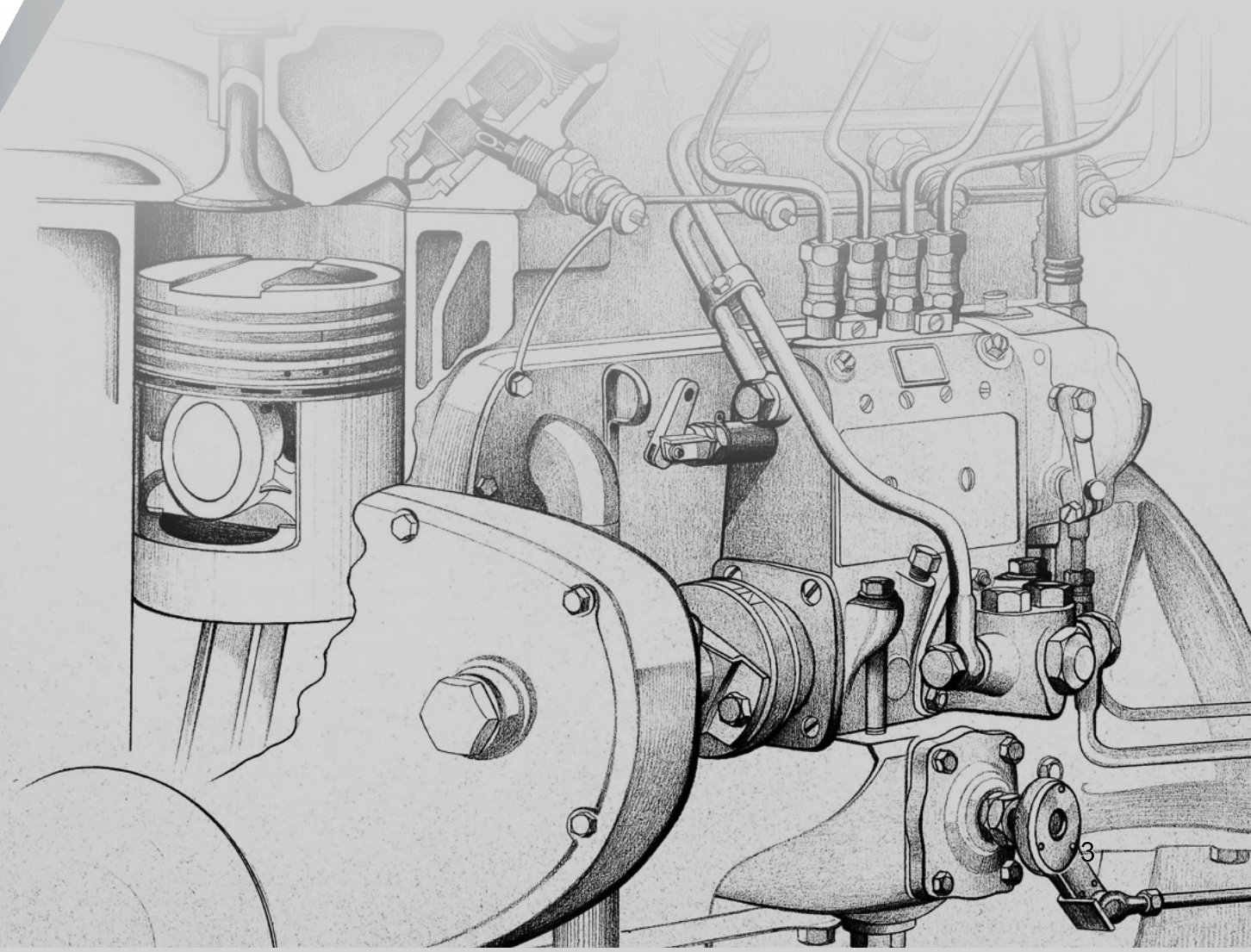
With our belief that services development and to keep up for the rapid evolution which we see worldwide, our appreciation to our clients and partners of success; we still offering all the support they need to ensure their success, we are proud of our Human Resources and our abilities, these are the key factors to be one of the leaders in the Diesel Generators in Egypt.

We thank our clients for their great trust which they offered us, with all appreciation for our team, who is insistent to successes and doing all they can to accomplish positive results characteristically.

Chairman

## The company in brief:

Denyo Aggour was established in 1997 with Egyptian capital. In 2005 we were enlarged within activities and group services to provide specialized companies in the line of Diesel Generator, so that the company will fulfill the line of business with all the services offered to companies and individuals, also we entered the area of specialized Diesel Generator brand like Denyo , Perkins , Cummins and Volvo to ensure fulfilling and raising the level of our services offered for all clients.





## Our Vision:

To be one of the biggest companies in North Africa and Middle East in the field of Diesel Generators.

## Business philosophy:

Integrity, Agility-wise, unity, effectiveness.

## Our mission:

Continious improvement and speciality in services, supporting our clients to ensure their success.

## Slogan:

- There is no excuse, the pursuit of perfection, immediate action.
- Today's quality is tomorrow's market.
- Quality first, honesty first.
- Customers' demand is the direction we are moving towards.

## Our Values:

In spite of the growth we have seen through the past years, our commitment still to our basic values. Our concern is to make it all according to values.

- Transparency: all we do is Diesel Generators, we comply with the highest occupational morals as a group and individuals.
- Support and advocacy: our commitment to fulfill our clients' needs and provide services exceed their expectations.
- Community service: est**abl**ishing a better community.

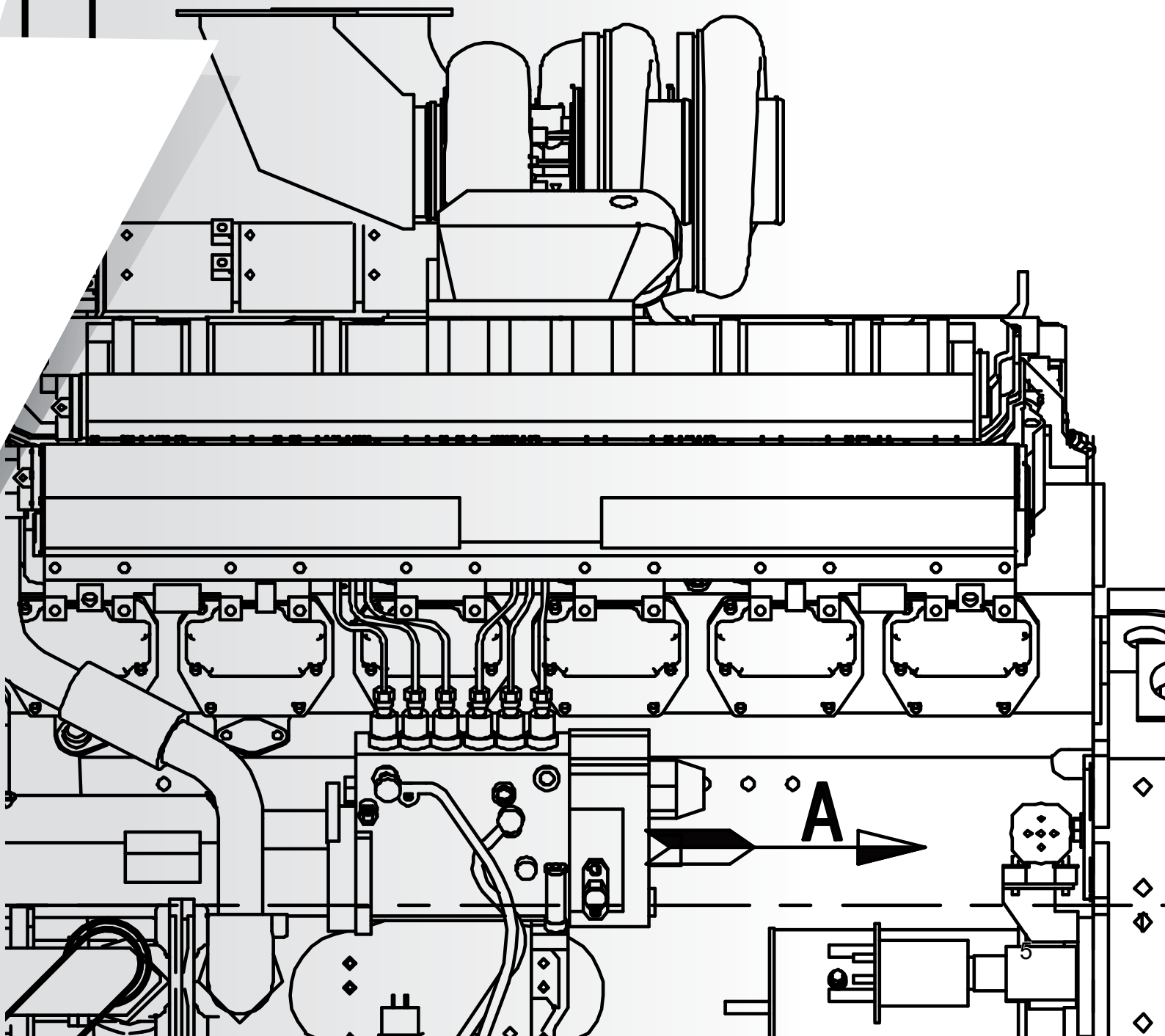


# Our responsibility

Goal of Denyo Aggour is to reduce the environmental impact. Committed to environmental and social standards into the global procurement system,. To establish a sustainable development supply chain consist of the company itself, suppliers and all customers who benefit from the service of Denyo Aggour.

Business doesn't just mean to sell products, Denyo Aggour takes attention to human and social, is committing to make this world a better place. As a responsible corporate citizen, we are committing to safe production, environmental concerns, and in ethical way to manage the business.

Denyo Aggour provides innovative power solutions, actively fulfill its corporate citizenship responsibilities, long-term commit to sustainable socio-economic development and the environment



# Service & Support

## Spare parts service

has a dedicated spares support department and a large inventory of spare parts. We use standard safety package and a modern warehouse management processes to ensure timely and efficient delivery of produces.

With the help of all branches, dealers and service partners ,we can provide replacement parts in the maintenance program quickly and effectively and repair the set .



## Maintenance

Diesel generators sets provided by Denyo Aggour company adopt configuration of international famous brands , and have passed ISO9001 international quality system certification. Whether agents, or direct users, they can get the most efficient and reliable support and services of Denyo Aggour Technical Service Center.

Warranty period of the set is 12 months after leaving the factory or 2500 running hours (whichever occurs first).If the failure is caused by turbine manufacturing defects, our company will be responsible for rectifying .Crew wearing parts, consumable parts for everyday use, human error, negligence or failure of following the original maintenance manual provisions, etc. are not covered by warranty.





# Training Center

For the convenience of the user that they can correctly grasp the generator set operation, use and maintenance, we have specially arranged experienced engineers to provide users with training on the site. According to the actual needs of users, they can also have systematic training courses at the research and production base Training objects: agents and customers of Denyo Aggour

Training purposes: Helping agents and customers of Denyo Aggour be familiar with our products and track our products, the latest technology.

Training topics: Training course topics covered generator sets , engines, generators, control systems basics, installation instructions, operating specifications, troubleshooting and so on.

Training time: arrangements for training several times a year. Total course lasts 3-10 days each time .





# SOLUTION

## Turnkey Projects

Generator sets for telecommunications, finance, IDC data center, military equipment and other specialized applications field .And standard generator sets are used for hospitals, real estate, mining, power plants, transportation, factories and other fields.

From the simplest to the most complex installation, no matter what kinds of demand for energy ,engineering department of Denyo Aggour are skilled in finding solutions for all kinds of problems. Customers with engineering experience ,local special and the latest technology requirements can witness.

Professional environmental Noise Reduction Project makes your minimum investment get the maximum return.

Denyo Aggour has a professional team of engineers and technicians, they help complete the implementation of the projects and ensure full compliance with technical specifications.

1. Pragmatic approach, The secret of success
2. Understanding of users' needs
3. Assessing needs accurately
4. Focusing on practical solutions
5. Absorption of innovative solution
6. Designing a complete optimization program
7. Construction and performance testing
8. On-site installation
9. Ensuring technical track and maintain

## Synchronization Paralleling system

Parallel system of Denyo Aggour has characteristics different from other parallel systems - 100% integration, Complete Denyo Aggour brand ,after unbeatable compatibility and reliability factory testing. The system include the most advanced turbine, the most advanced control systems and circuit breakers. Parallel system provides excellent power supply in various application areas and improve the reliability of system .

### Why should we need to consider the parallel system?

#### 1. Redundancy

Redundancy just like the backup of the backups which ensures that critical load will not be damaged. When a generator set needs an overhaul, other generators can provide power protection for critical loads. If a generator set fails, you still have other backups of generator sets.

#### 2. expansion and scalability of system

Denyo Aggour parallel system has been designed to allow users to purchase a suitable system fit for the demand now and be easily extended when the demand increases . Meanwhile , because of the inherent scalability, you will never need to worry about that it will be beyond the expected update system.

#### 3.Prices are more competitive

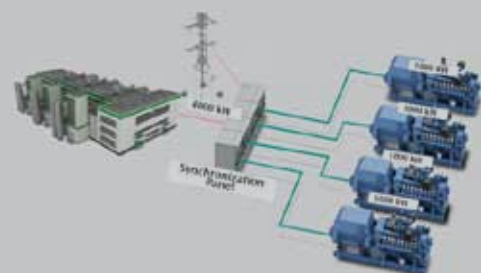
In most cases, if two or more generators sets are paralleled, they will provide as same power output as a single high-power .while paralleled generators sets will save more costs.

#### 4. Saving operating cost

In this case, when a generators set can satisfy the load demand, operation will be more efficient and costs will be saved more . Because Denyo Aggour parallel system will shut down redundant units of the system automatically when demand in the load are low . The result is that fuel will be saved , while the generator running time will be reduced .In that way , the service life of the generator set can be extended.

#### 5. Fast delivery time

Denyo Aggour parallel system is a standard product. There is no need for special custom design. So we can deliver our system more quickly than other parallel systems .



# Applications

A full lineup to produce optimum power for user needs.

Generators are indispensable as power sources at construction sites. Widely used for live TV broadcasts, various types of events, leisure activities, and other purposes, our generators produce the optimal power to meet user needs. Offering high-performance power generation and durability as well as energy conservation and noise reduction, these products have won endorsement as the first choice of professionals in Japan and around the world.

## Oil

Factory standby power provide the support whenever mains failure ,alternative power systems can provide power immediately. factories now use high-security, stable performance generator set as standby power to support the normal operation of the factory process.



- No power dissipation under 3000m.
- ambient temperature lower limit -15°C upper limit 50 C.
- unit MTBF period not less than 2000 hours.
- Strong Motor starting capability, easy to start high-power equipment.
- Expansion function: Two or more three-phase sets with same specification , running parallel stable rated power

## Banking

The banking system has very high demand in the environmental aspects especially the anti-linear load disturbance, so the stability of the performance of the diesel generator set, AMF and ATS functions, instant startup time, low noise, low exhaust emissions, noise immunity, security have stringent requirements and other aspects.

- Equipped with detection system, real-time supervision operation of the unit, a number of data display, monitoring and alarm shutdown feature.
- With RS232/RS485 communication interface with the computer connection. remote monitoring, remote control,telecommand and telemetry.Optional ATS, automatically switch to generator sets after the main power supply failure (3-15s).
- Ultra-low noise, quiet enough environment to ensure system security and data center staff Concentrate on their work.
- Low exhaust emissions, comply with the environmental requirements of the green data center.



- Stable performance, unit MTBF period not less than 2000 hours.
- To provide the best solutions based on each client's individual need.
- More clean power output, reducing the interference of IT equipment.



## Communication

Since 1980s and 1990s, telecommunications industry developed rapidly, power supply as the core of the information processing center, have particularly strictly requirements for generator sets, Stable performance, automatic control, convenient, energy-saving, environmental protection.

- Automatic start and automatic upload when receipt of self control or remote control order. automatic protection include low oil pressure, Overvoltage, over speed, overload, short-circuit, open-phase protection and High water temperature protection(water cooled genset),High cylinder temperature protection function(Air cooled genset).
- Meet the technical requirements of remote monitoring, telemetry, remote and remote control functions, realize real-time remote monitoring of the operating parameters of the unit, run state. when the crew abnormal situation or serious fault automatic alarm to the monitoring center and achieve remote control of the the genset. Be able to provide a standard communication protocol.
- Back up function: Can be used with ATS automatic switching of the mains and diesel generator sets or Double backup and switch between the two diesel generator sets
- Expansion function: Two or more three-phase sets with same specification , running parallel stable rated power factor, under rated power range(20-100)%
- Unit MTBF period not less than 2000 hour







## Medical

Ultra-low noise, quiet enough environment to ensure doctor and patient comfortable , the supply of the core spaces electricity surgery and ICU and normally operation of the whole hospital.

- Working 24-hour continuous with rated power output.
- Ambient temperature lower limit -15°C upper limit 50 °C.
- Maintain a quiet environment through ultra-low noise

generator does not affect the normal work of doctors and patients rest.

- Equipment Detection System protection include low oil pressure, Overvoltage, over speed, over load, Failure start make sure safe operation.
- Start automatically model, with the AMF (automatic mains failure), equipped with ATS realize automatic start. Start the unit automatically when the mains failure, the starting time delay <5 seconds (adjustable), Fully meet the inputs load required time in less than 12 seconds, the unit automatic shutdown after maintaining 0-300 seconds run cooling (adjustable).
- unit MTBF period not less than 2000 hours.
- No Load voltage setting range( 95-105% ) rated voltage.



## Factory

Factory standby power provide the support whenever mains failure ,alternative power systems can provide power immediately. factories now use high-security, stable performance generator set as standby power to support the normal operation of the factory process.

- No power dissipation under 3000m.
- ambient temperature lower limit -15°C upper limit 50 °C.
- unit MTBF period not less than 2000 hours.
- Strong Motor starting capability, easy to start high-power equipment.
- Expansion function: Two or more three-phase sets with same specification running parallel stable rated power factor, under rated power range(20-100)%.



## Municipal Construction

As known to all, outdoor construction has fairly strict requirements for generator sets, Stable performance, easy to operate, easy to maintain, easy to move, and many other aspects of.

- No power dissipation under 3000m.
- ambient temperature lower limit -15°C upper limit 50 °C.
- unit MTBF period not less than 2000 hours.
- External refueling system, equipped with locking function.
- Large fuel tank, meet 12-24hour continuous operation.
- Equipped with a rain cover, a manhole, all day use.
- Equipped with automatic vehicle chassis and cable winch. safety and convenient mobility.

## Transportation

In addition to a variety of infrastructure, urban transport are generally equipped with fire control, guidance, security, communications, signals, data system. Once power failure, it will fall into panic and disorder it would be hard to imagine the consequences. The selection of Denyo Aggour diesel generators as backup power provide emergency power supply to meet unexpected circumstances.

- Equipped with detection system, real-time inspect operation of the unit, number of data display, monitoring and alarm shutdown feature.
- With RS232/RS485 communication interface with the computer connection. remote monitoring, remote control, telecommand and telemetry.
- Optional ATS, automatically switch to generator sets after the main power supply failure (3-15s).
- Environmental protection, low noise. Support normal operation of transportation system.
- Ultra-low noise, quiet enough environment to ensure staff Concentrate on their work.
- Unit MTBF period not less than 2000 hours.
- meet the demand of all kinds of harsh environments and high altitudes.
- To provide the best solutions based on each client's individual need.





# Hotel

The selection of Denyo Aggour diesel generators as backup power provide emergency power supply to meet unexpected circumstances ensure the normal operation of the hotel. Fully automatic and parallel control functions. Particularly suitable for the high-level the hotel different time electricity demand automatically adjust ,truly unattended automatic control. Achieve convenient, energy-saving, environmental protection effect. mute design ensure a quiet and comfortable Habitat trip.

- Equipped with detection system, real-time inspect operation of the unit, number of data display, monitoring and alarm shutdown feature.
- With RS232/RS485 communication interface with the computer connection. remote monitoring, remote control, telecommand and telemetry.
- Automatic detection of a mains failure, automatically start the generator set.
- Optional ATS, automatically switch to generator sets after the main power supply failure (3-15s).
- Fully automatic and parallel systems adjusted the number of units in operation automatically according to the load conditions.
- Environmental protection, low noise. Support normal operation of hotel.
- Unit MTBF period not less than 2000 hours.
- meet the demand of all kinds of harsh environments and high altitudes.
- To provide the best solutions based on each client's individual need.

## Leisure

Leisure and entertainment have higher demand of lighting, need a continuous and stable supply of electricity. The selection of diesel generators as backup power provide emergency power supply to meet unexpected circumstances ensure the normal operation of the leisure arena.

- Equipped with detection system, real-time inspect operation of the unit, number of data display, monitoring and alarm shutdown feature.
- With RS232/RS485 communication interface with the computer connection. remote monitoring, remote control, telecommand and telemetry.
- Automatic detection of a mains failure, automatically start the generator set.
- Optional ATS, automatically switch to generator sets after the main power supply failure (3-15s).
- Environmental protection, low noise. Support normal operation of leisure arena.
- Unit MTBF period not less than 2000 hours.
- Meet the demand of all kinds of harsh environments and high altitudes.
- To provide the best solutions based on each client's individual need.



## Real Estate

The large property has a large business area, personnel-intensive, high turnover rate, great amount electrical equipment and other characteristics. Variety of electrical lighting equipment, a wide number of lines of complex, large electricity load, much higher than in other public places, and the daily electricity last longer, and are generally more than 12 hours. The selection of diesel generators as backup power provide emergency power supply to meet unexpected circumstances ensure the normal operation.

- With RS232/RS485 communication interface with the computer connection. remote monitoring, remote control, telecommand and telemetry.
- Automatic detection of a mains failure, automatically start the generator set.
- Optional ATS, automatically switch to generator sets after the main power supply failure (3-15s).
- Environmental protection, low noise. Support normal operation.
- Unit MTBF period not less than 2000 hours.
- Meet the demand of all kinds of harsh environments and high altitudes.
- To provide the best solutions based on each client's individual need.





# Products

- Generators
  - Open Generators
  - Industrial
  - Portable
  - Caravan
  - Residence
  - Telecom
  - Ultra silence
  - Soundprof Generators
  - Containerized Generators
  - Mobile Generators

- Distribution system

## HOW TO SELECT A GENERATOR

Range of motor capacities that can be used with Denyo generators.

Choosing generator output according to motors and other loads is made simple by referring to the motor capacity range and generator output in this table.

Model		DCA-13		DCA-15		DCA-20		DCA-25		DCA-35		DCA-45		DCA-60	
Item		50	60	50	60	50	60	50	60	50	60	50	60	50	60
Frequency (Hz)		50	60	50	60	50	60	50	60	50	60	50	60	50	60
EG capacity (kVA)		10.5	13	12.5	15	17	20	20	25	30	35	37	45	50	60
Motor capacity (kW)	Direct startup	3.4	4.1	4	5	5.4	6.3	6.3	7.6	9.4	11.6	12.3	14.9	16	20.5
	Y-Δ startup(1)	5.2	6.4	6	7.5	8.2	9.5	9.5	11.4	14.3	17.5	18.5	22.4	24	30.8
	Y-Δ startup(2)	8.3	10.2	9.6	11.9	13.1	15.7	15.7	19.5	23.1	27.7	28.2	34.3	38.4	46

Model		DCA-75		DCA-100		DCA-125		DCA-150		DCA-220		DCA-300		DCA-400	
Item		50	60	50	60	50	60	50	60	50	60	50	60	50	60
Frequency (Hz)		50	60	50	60	50	60	50	60	50	60	50	60	50	60
EG capacity (kVA)		65	75	80	100	100	125	125	150	200	220	270	300	340	400
Motor capacity (kW)	Direct startup	21.5	25	27.2	34.5	34.5	42.5	42.5	51	68	76	91	102	115	136
	Y-Δ startup(1)	32.3	37.5	40.8	51.8	51.8	63.8	63.8	76.5	102	114	136	153	173	204
	Y-Δ startup(2)	48.8	58	62	68	68	97	97	115	151	172	208	231	262	308

Model		DCA-500		DCA-600/610		DCA-800		DCA-1100	
Item		50	60	50	60	50	60	50	60
Frequency (Hz)		50	60	50	60	50	60	50	60
EG capacity (kVA)		450	500	550/554	600/610	700	800	1000	1100
Motor capacity (kW)	Direct startup	155	175	185	205	210	243	306	337
	Y-Δ startup(1)	233	263	278	308	315	365	459	505
	Y-Δ startup(2)	351	390	432	460	508	575	734	808

Motor usage examples in the above table are benchmark values : generator capacity will differ according to the required momentary voltage drop, motor load factor, and size of startup capacity, as well as motor age and efficiency.

# Environmental

## Powerful engines

- Adopts engines, with low noise and low emission.
- Rigid structure ensures lowest vibration.
- Common rail system (for some models) significantly lowers the combustion noise, and also leads to cleaner exhaust.
- For the turbocharged machines, the carbon dioxide (CO<sub>2</sub>) exhaust is limited.

## Excellent silencers

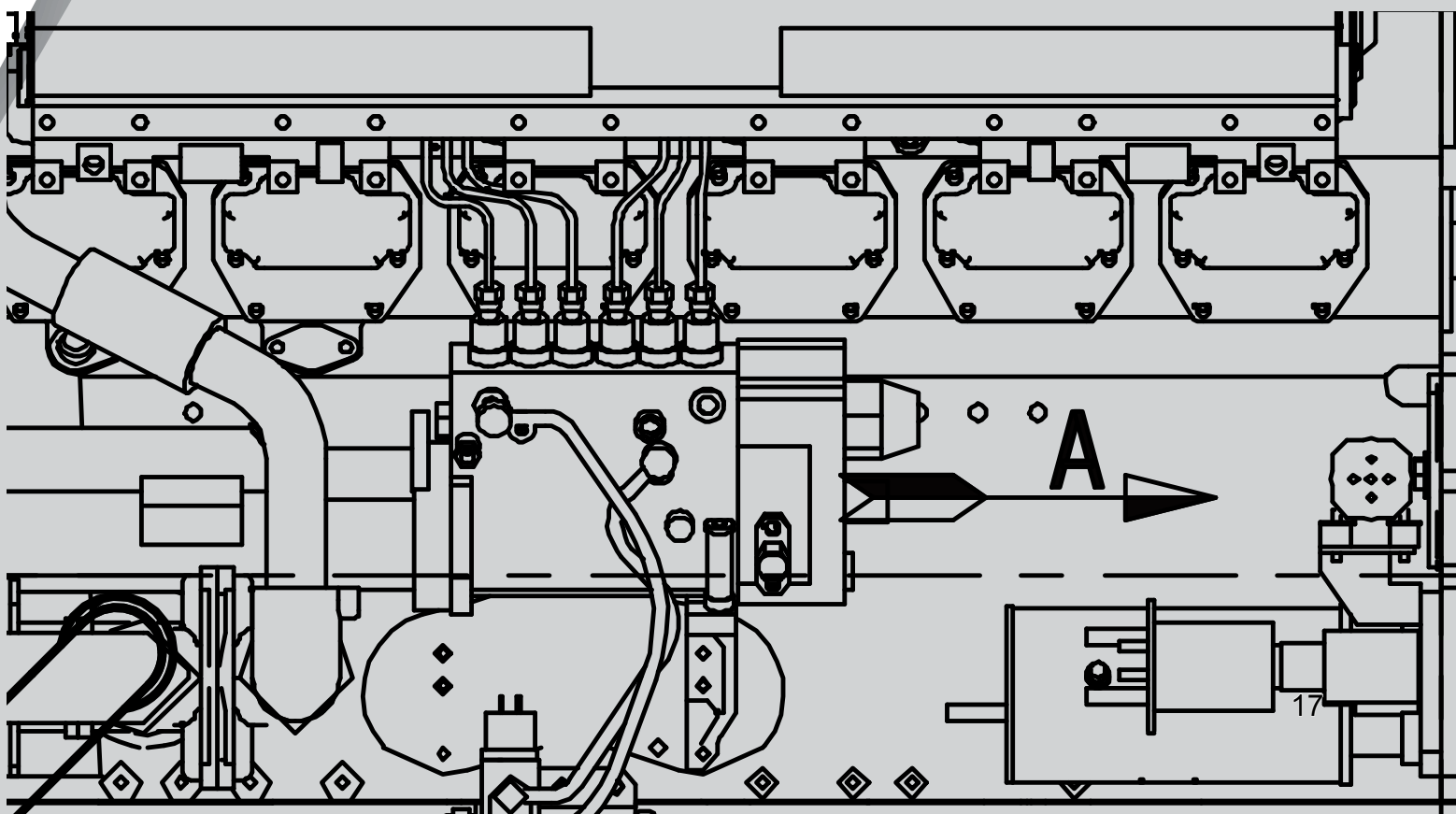
- Silencer and muffler pipe system dramatically reduce the noise during operation, and therefore cause less affect on daily life.

## High quality sound absorbing material

- The interior is lined with new type fire retardant sound absorbing cotton, and the door is airproof with rubber specific for car doors, which helps absorb massive noise and heat during the operation.

## Fully-closed noise reduction

- Besides airproof rubber around the doors, the inlet and outlet are airproof treated to further lower the noise.



# Easy to operate

## Control system

- Micro-processor cored digital system.
- Multiple languages for option, automatic control.
- Connected with the mains through ATS, which help realize automatic transfer between the mains and the generators. Also, multiple generators can be paralleled for bigger power need.

## Convenient Connection

- Terminal connection lugs makes connection and wiring more simple and well-ordered.
- Emergency stop provides convenient operation in emergent situation and when servicing.

## Easy to transport

- Lifting eyes located on the top the canopy makes easy move by cranes.

## Easy to maintain

- The daily maintenance work can be performed on the two sides of the machine, and wide door allows you easily get in the machine.

## Humanized design

- The oil drainage pump is located in the side door for easy operation.
- Clear labeling in easy visible positions, providing adequate information for operators. The labels are provided by 3M Corporation, featured with excellent high temperature resistance, rainproof and weather-proof performance.

# Enhanced Safety

## Operation safety

- The radiator and high-voltage parts are guarded to avoid accidents caused by touch.
- The control panel is lockable. Current changeover switch, voltage regulator and circuit breakers are installed behind the door.
- Anti-vibration rubbers are installed in the two sides of the doors to avoid damage to the machines when open the doors.

## Information safety

- The machines are equipped with monitoring system, helping monitor the operation at real time. We provide DSE control module for your option, See the description bellow for more details.

## Electric safety

- Double protection for the cable connection panel, lower the chance of leakage caused by unintended touch or rain falling.
- Automatic turn-on circuit breaker with undervoltage protection system inside, maximumly avoiding human misoperation.
- Flexible control system with automatic control module for multi-directional monitoring, meeting multilevel demands and considerate protection of or for customers.



# Stable and Reliable quality

## Engines and Alternators

- Engines and alternators featured with high power and torque, quick start, easy maintenance and operation.

## Compact structure

- Compact structure, small size, and longer service life.

## High quality steel and paint craftwork

- The canopies are made of high quality steel and powder coated. The paint is highly endurable against erosion and scratch, with over 5 years rustproof period.

## Advanced waterproof and dustproof design

- The control panel, service doors, and canopy board adopts waterproof, and effectively stops rain and dust intrusion.

## Excellent anti-vibration devices

- Anti-vibration mountings between the engines, alternators and the base significantly reduce the vibrations during operation, ensuring stable operation.
- All movable devices are fixed firmly, and therefore help reduce vibration.

# Open Generators

## R-C SERIES

- Driven by well known Cummins engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 8-1980kW

## R-XC SERIES

- Driven by well known FAWDE engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
  - Power range: 12-330kW

## R-L SERIES

- Driven by well known Lovol engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 20-161kW

## R-I SERIES

- Driven by well known Isuzu engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 20-31kW

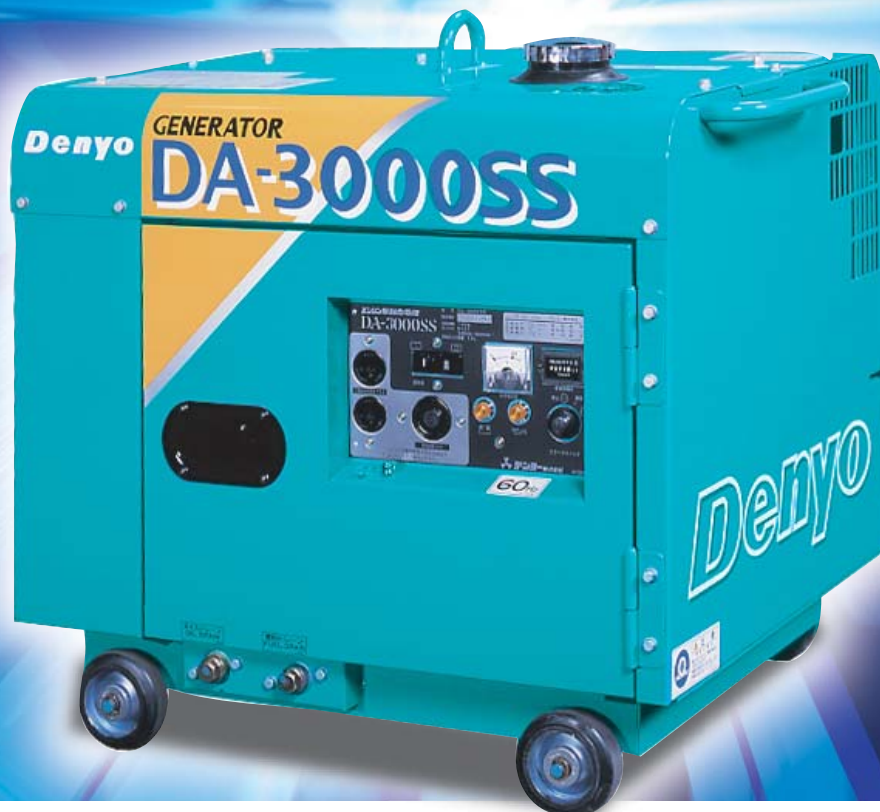
## R-V SERIES

- Driven by well known Volvo engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 56-605kW

## DIESEL ENGINE SOUNDPROOF GENERATOR

# DA-3000SS

***Powerful, portable and dependable generators for construction, agriculture and leisure applications***



### **POWERFUL:**

Denyo' s patented, brushless generators can handle more loads than any other brand, due to improvements in voltage regulation and motor-starting capacity.

### **PORTABLE:**

The DA-3000SS is very compact and light weight has made moving the unit at the worksite quick and easy.

### **DEPENDABLE:**

Equipped with Denyo's high-quality parts and coupled to the most reputed diesel engine, DA-3000SS outperform all others in their class.



POWERFUL,PORTABLE & DEPENDABLE

DA-3000SS

Patented Revolutionary Design

The brushless generator developed by Denyo employs built-in voltage compensation and initial excitation windings to achieve less voltage regulation and improved motor starting capacities. Owing to this, generators can be operated at 100% load soon after ignition.

Maintenance Simplified

Exceptionally quiet operation accomplished through the use of state-of-the-art soundproofing technology.

Compact and lightweight design

Compact and lightweight design owing to 2-pole alternator and well matched engine.

Air Bleeding

Air bleeding can be accomplished merely by cranking.

Built -in Monitoring Devices

DA-3000SS is equipped with sensors for monitoring oil levels and automatic shut-down in order to protect the engine.

Smooth Starting

Starter Motor guarantees a sure start even at temperatures low as -5°C

Provision of Protective Devices and Warning Lamps

Automatic warning and shut-off device for low oil pressure, insufficient charging, over current of generator.

Items	Operation/ display	Engine shut down	Circuit breaker will trip	Warning Lamp
Low lubricating oil pressure		○	—	○
Insufficient Charging		○	—	○
Over current of Generator		—	○	—

○: Operates —: Does not operate

Specifications

Model		DA-3000SS	
AC Generator		Dimensions and Weight	
Frequency	Hz	50	60
Rated Output	kVA	2.7	3.0
No. of Phases	Single Phase,2-Wire		
No. of Poles	2		
Rated Voltage	V	100-120 or 200-240	
Power Factor(lagging)	1.0		
Voltage Regulation	%	Within ±5.0	
Excitation	Revolving-Field,Self-Exciting, New brushless		

Dimensions	Length	mm	820
	Width	mm	570
	Height	mm	710
Dry Weight		kg	145
Sound Level		7m/dB(A)	65

Dimensions and Weight

Dimensions	Length	mm	820
	Width	mm	570
	Height	mm	710
Dry Weight		kg	145
Sound Level		7m/dB(A)	65



●In line with our policy of continuous development, we reserve the right to change specification without notice.  
●Always follow the Operation Manual when storing, transporting, and operating the machine.

SOUNDPROOF DIESEL GENERATING SETS

# DCA Series

Choice of more powerful and quiet!



**Denyo Co., Ltd.**



# DENYO POWER GENERATORS are partners of our civil life

Denyo power generators are capable of generating power in various situations where public power supply is not available. They contribute to build infrastructure of society and are highly appreciated by customers all over the world. In a variety of situations like civil engineering works and construction works to build infrastructure of our society.

Denyo engine power generators are capable of providing power at various sites where power is required like civil work and construction sites as well as are also employed in various facilities as emergency power source for critical equipment like medical equipment in hospital, bank online system and traffic signals etc.



As the power source in the area where electricity is unavaible.



As the power source in the construction site.



As the Emergency power source in the hospital.

## GENERAL CONSTRUCTION

The DCA Series generators are complete, stand alone generating sets. All models consist of a Denyo alternator which is directly coupled to a diesel engine. The alternator and engine are set on a common skid base. Special vibration isolators are used to minimise vibrations during operation.

The generator and electrical components are fully enclosed in a solid-steel, weatherproof bonnet. Noise suppression is achieved using highly effective sound insulating materials.





# PERFORMANCE FEATURES

## HIGH-PERFORMANCE

The Denyo generating system guarantees the following levels of performance:

**TEMPERATURE RISE:**100°C temperature rise at 40°C ambient (JEC2130) .

**INSULATION:**ClassF (JEC2130) .

**VOLTAGE REGULATION:**Within±0.5%  
( except DCA-400SP )

**FREQUENCY REGULATION:**Within 5.0% through no-load to full-load.

**VOLTAGE WAVEFORM:**Deviation Factor of open-circuit terminal voltage does not exceed 0.06.  
Telephone Influence Factor (TIF) is less than 50.

**ELECTROMAGNETIC INTERFERENCE LEVEL:**Attenuated to meet most commercial requirements.

**INSULATION RESISTANCE:**Higher than 3 Mega-ohms, measured between armature windings and earth, field windings and earth, field control circuit and earth.

—The innovative excitation system\* fitted on all models, in conjunction with the AVR and advanced brushless generator, provides fast voltage regulation in response to load variations, enabling use soon after start up. This system provides output stability during load variations.

\*U.S. Patent No.4268788

—Synchronous brushless alternator for minimal wear.

— Designed to function in all climatic conditions.

—Will safely power the most sensitive loads, such as thyristors, invertors and computer systems, without the risk of damage to these loads, thanks to the high level electrical characteristics of the generator's output.

## ECONOMICAL PERFORMANCE

—Easy starting and quick response.

—Utilising highly reliable diesel engines with low fuel consumption, manufactured by Japan's leading engine manufacturers.

## UNSURPASSED FLEXIBILITY

To meet today's varying needs successfully, your equipment must be as flexible as you are. The Denyo DCA Series generator range provides you with the flexibility to get the job done simply and economically, without any delays.

### TRUE HEAVY-DUTY PERFORMANCE

For a particular job, you may need that extra power from your generator. With the DCA Series, the standby power rating (110% or 105% load except DCA- 610SPM) can be used continuously for 1 hour in every 8 hours of continuous operation. This extra power performance of Denyo generators means you can get the job done, without the inconvenience of using another generator.

### PARALLEL OPERATION FEATURE

(except for DCA-100 and below )

From time to time, at a construction site, mine site or in other situations, a large temporary power supply is required for a particular job. To meet this requirement Denyo's DCA Series generators incorporate a built-in parallel operation drive system, allowing you to create a large capacity generating plant on-site, without the need to procure any other equipment.

### DUAL VOLTAGE SYSTEM

(optional for DCA-25USI3, 45ESI, 45USI2, 60ESH, 60USH)

For companies that operate internationally or have motors that require power at different voltages, a different generator is usually required for each voltage setting. However, the DCA Series generators are equipped with a dual voltage system, so one generator can be used to power motors with different voltage settings. An extremely convenient feature.

### ALL MODELS CAN RUN AT 50Hz/60Hz

Simply adjust the engine speed on the control panel to use a DCA Series generator at either 50 Hz or 60 Hz.

### EXTREMELY QUIET OPERATION

In urban areas and at the worksite, there is an ever increasing demand for reduced noise pollution. In response to these concerns, Denyo has pioneered a soundproof and super soundproof range of generators. The DCA Series generators are extremely quiet when operating at full load, even though all soundproof models are compactly designed. Check the specifications for the sound level of each model.



# DENYO GENERATORS: DESIGNED TO BE TOTALLY USER-FRIENDLY

## MAINTENANCE MADE SIMPLER

- All daily maintenance requirements can be performed from one side of the machine. The large doors gives you full acces to the engine.
- External drain plugs for oil, fuel and water are fitted for convenience in performing routine maintenance.
- Large fuel gauge is fitted for simple viewing.
- For major engine overhauls, the bonnet can be simply unbolted, which allows full access to the engine.



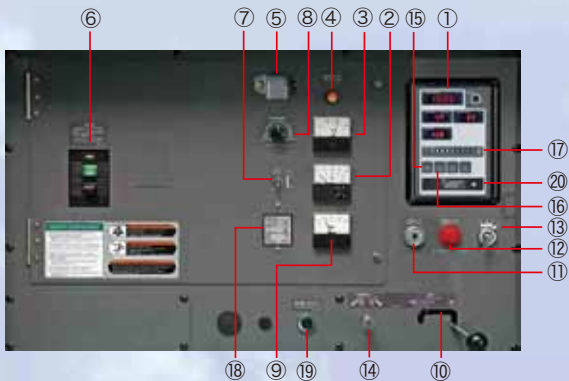
## TRANSPORTABILITY

- The new designs of the DCA Series range have achieved significant size and weight reductions over previously produced models, through improvements in coupling techniques and alternator design.
- The sturdy weatherproof steel bonnet on a heavy-duty steel skid base allows easy handling by a forklift.
- The balance point lifting hook (lug) fitted on the roof of each machine facilitates easy transportation using a crane.
- All models are modular designed, so that generators can be stacked, thereby making the best use of your valuable storage area.



## FULLY APPOINTED CONTROL PANELS FOR EASE OF USE AND MONITORING GENERATOR PERFORMANCE.

- |                      |                                    |
|----------------------|------------------------------------|
| ① Indicator          | ⑪ Preheat Lamp                     |
| ② AC Ammeter         | ⑫ Emergency Stop Button            |
| ③ Voltmeter          | ⑬ Starter Switch                   |
| ④ Pilot Lamp         | ⑭ Frequency Adjust Screw           |
| ⑤ Panel Light        | ⑮ Warning Lamp (Oil Pressure)      |
| ⑥ Circuit Breaker    | ⑯ Warning Lamp (Water Temperature) |
| ⑦ Panel Light Switch | ⑰ Fuel Level Indicator             |
| ⑧ Voltage Regulator  | ⑱ Earth Leakage Relay              |
| ⑨ Frequency Meter    | ⑲ Fuel Priming Pump Button         |
| ⑩ Throttle Lever     | ⑳ Hour Meter                       |



## Provision of Various Protective Devices and Warning Lamps

- A circuit breaker is provided to protect the generator from shorting of the load circuit or an overload.
- An emergency stop device is provided to automatically detect an engine malfunction and shut down the unit, as well as a warning lamp.

SPECIFICATION TABLE (13kVA~45kVA CLASS SOUNDPROOF TYPE)

MODEL		DCA-13LSK		DCA-13LSY		DCA-15LSK		DCA-20LSK		DCA-25ESK		DCA-25ESI		DCA-35SPK		DCA-45ESI	
ALTERNATOR																	
Frequency		Hz		50	60	50	60	50	60	50	60	50	60	50	60	50	60
Output Rating(kVA)	Continuous	10.5	13	10.5	13	12.5	15	17	20	20	25	20	25	30	35	37	45
	Standby	11	13.7	11.5	14	13.8	16.5	18.7	22	22	27.5	22	27.5	31.5	36.75	38.9	47.3
No.of Phases		3-Phase,4-Wire															
Rated Voltage*1		V		①or③ Single Voltage						②Dual Voltage				①or③ Single Voltage		②Dual Voltage	
Power Factor		0.8 (Lagging)															
Voltage Regulation		%		Within ±0.5													
Excitation		Brushless,Rotating Exciter (With A.V.R.)															
Insulation		Class F														Class H	

ENGINE									
Maker & Model		Kubota D1403-K3A	Yanmar 3TNV84-G	Kubota D1703-K3A	Kubota V2203-K3A	Kubota V2203-KB	Isuzu AA-4LE2	Kubota V3300-EB	Isuzu BB-4JG1T
Type		Inlined, Swirl Chambered	Inlined, Direct Injected	Inlined, Swirl Chambered			Inlined, Direct Injected	Inlined, Swirl Chambered	Inlined, Direct Injected, Turbocharged
Output Rating	PS/rpm	13.7/1500	16.9/1800	15.3/1500	18.3/1800	16.9/1500	20/1800	23.1/1500	27.1/1800
	kW/rpm	10.2/1500	12.4/1800	11.3/1500	13.5/1800	12.4/1500	14.7/1800	17.0/1500	19.9/1800
No. of Cylinders-Bore×Stroke	mm	3-80×92.4	3-84×90	3-87×92.4	4-87×92.4	4-87×92.4	4-85×96	4-98×110	4-95.4×107
Piston Displacement	L	1.393	1.496	1.647	2.197	2.197	2.179	3.318	3.059
Fuel		ASTM No. 2 Diesel Fuel or Equivalent							
Fuel Consumption *2	L/h	2.4	2.9	2.1	2.6	2.8	3.4	3.6	4.3
Lube Oil Sump Capacity	L	5.6	6.7	5.6	7.6	7.6	8.5	13.2	10
Coolant Capacity	L	6.4	3.9	6.4	7.9	7.9	6.6	10.5	10.9
Battery×Quantity		80D26R×1						95D31R×1	
Fuel Tank Capacity	L	62					70	82	100

UNIT									
Dimensions	Length mm	1390	1390	1390	1540	1540	1540	1900	1900
	Width mm	650	650	650	650	650	680	860	880
	Height mm	900	900	900	900	900	900	990	1250
Dry Weight	kg	503	490	516	580	591	564	890	960

SOUND LEVEL									
7m dB (A) 1500/1800 rpm (min <sup>-1</sup> ) *3		58	61	61	62	60	63	61	64

*1 Rated Voltage Classification			*4		
Frequency	50Hz	60Hz			
①	190~220V	200~240V			
②	190~220V	190~240V			
	380~440V	380~480V			
③	380~440V	380~480V			
④	190~220V	200~240V			
	(380~440V)	(380~480V)			

\*2 Fuel consumption is based on operation at 75% load.  
\*3 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.  
\*4 Depending on location and area, output voltage may differ from values listed in catalog.



DCA-13LSK



DCA-15LSK



DCA-25ESK



DCA-25ESI



DCA-35SPK



DCA-45ESI



SPECIFICATION TABLE(60kVA~150kVA CLASS SOUNDPROOF TYPE)

MODEL		DCA-60ESH		DCA-60ESI2		DCA-75SPI		DCA-100ESI		DCA-125SPK3		DCA-150ESK	
ALTERNATOR													
Frequency		Hz		50	60	50	60	50	60	50	60	50	60
Output Rating(kVA)	Continuous	50	60	50	60	65	75	80	100	100	125	125	150
	Standby	55	66	55	66	68.3	78.8	88	110	110	138	138	165
No.of Phases		3-Phase,4-Wire											
Rated Voltage*1		V		④Single Voltage (Dual Voltage is an option)		②Dual Voltage							
Power Factor		0.8 (Lagging)											
Voltage Regulation		%		Within ±0.5									
Excitation		Brushless,Rotating Exciter (With A.V.R.)											
Insulation		Class F		Class H		Class F							

ENGINE													
Maker & Model		Hino W04D-TG		Isuzu BB-4BG1T		Isuzu A-6BG1		Isuzu DD-6BG1T		Komatsu SA6D102E-1-A		Komatsu SAA6D102E-2-D	
Type		Inlined,Direct Injected,Turbocharged				Inlined,Direct Injected		Inlined,Direct Injected, Turbocharged		Inlined,Direct Injected,Turbocharged, Aftercooled			
Output Rating	PS/rpm	66/1500	78/1800	65/1500	77/1800	80/1500	93/1800	100/1500	124/1800	133/1500	157/1800	153/1500	183/1800
	kW/rpm	48.5/1500	57.4/1800	47.9/1500	57.1/1800	58.8/1500	68.4/1800	73.6/1500	91.3/1800	97.8/1500	115.5/1800	113/1500	135/1800
No.of Cylinders-Bore×Stroke mm		4-104×118		4-105×125		6-105×125		6-105×125		6-102×120		6-102×120	
Piston Displacement L		4.009		4.329		6.494		6.494		5.880		5.880	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent											
Fuel Consumption*2	L/h	8.8	10.6	8.7	11.0	10.8	12.5	13.5	17.4	15.5	20.1	20.6	25.0
Lube Oil Sump Capacity L		16.5		13.2		19.3		22.4		22		22	
Coolant Capacity L		12.2		15.4		22.9		22.0		23.9		28.4	
Battery×Quantity		80D26R×2		120E41R×1		95E41R×2		95D31R×2		95E41R×2			
Fuel Tank Capacity L		125		125		155		225		250			

UNIT													
Dimensions	Length mm	2050		2200		2630		2750		3000		3250	
	Width mm	880		880		1000		1050		1080		1080	
	Height mm	1250		1250		1300		1350		1500		1500	
Dry Weight kg		1240		1120		1590		1730		2120		2390	

SOUND LEVEL													
7m dB (A) 1500/1800 rpm (min <sup>-1</sup> )*3		61	64	61	64	61	63	59	61	63	66	62	65

*1 Rated Voltage Classification			*4	
Frequency	50Hz	60Hz		
②	190~220V 380~440V	190~240V 380~480V		
④	190~220V (380~440V)	200~240V (380~480V)		

\*2 Fuel consumption is based on operation at 75% load.  
\*3 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.  
\*4 Depending on location and area,output voltage may differ from values listed in catalog.

( ) indicates options.



DCA-60ESI2



DCA-75SPI



DCA-100ESI



DCA-125SPK3



DCA-150ESK

SPECIFICATION TABLE(150kVA~600kVA CLASS SOUNDPROOF TYPE)

MODEL	DCA-150ESM	DCA-220ESM	DCA-220SPK3	DCA-300SPK3	DCA-400SPKII	DCA-500SPK	DCA-600SPV
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ALTERNATOR

Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Output Rating(kVA)	Continuous	125	150	200	220	200	220	270	300	350	400	450	500	550	600
	Standby	138	165	220	242	220	242	297	330	385	440	495	550	605	660
No.of Phases		3-Phase,4-Wire													
Rated Voltage*1	V	②Dual Voltage													
Power Factor		0.8 (Lagging)													
Voltage Regulation	%	Within ±0.5								Within ±1.0			Within ±0.5		
Excitation		Brushless,Rotating Exciter (With A.V.R.)													
Insulation		Class F													

ENGINE

Maker & Model		Mitsubishi 6D16-TLE2D		Mitsubishi 6D24-TLE2B		Komatsu S6D125E-2-A		Komatsu SA6D125E-2-A		Komatsu SA6D140-A		Komatsu SA6D170-B		Volvo TAD1642GE	
Type		Inlined,Direct Injected, Turbocharged,Aftercooled						Inlined,Direct Injected, Turbocharged		Inlined,Direct Injected,Turbocharged,Aftercooled					
Output Rating	PS/rpm	153/1500	183/1800	246/1500	270/1800	242/1500	277/1800	316/1500	350/1800	421/1500	485/1800	520/1500	580/1800	659/1500	723/1800
	kW/rpm	113/1500	135/1800	181/1500	199/1800	178/1500	204/1800	232/1500	257/1800	310/1500	357/1800	382/1500	427/1800	485/1500	532/1800
No.of Cylinders-Bore×Stroke mm		6-118×115		6-130×150		6-125×150				6-140×165		6-170×170		6-144×165	
Piston Displacement L		7.540		11.940		11.040				15.240		23.150		16.120	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent													
Fuel Consumption*2 L/h		19.8	24.0	33.7	38.1	31.5	35.7	43.6	50.0	52.1	60.8	69.5	83.1	81.2	91.7
Lube Oil Sump Capacity L		16		37		42		62		74		119		48	
Coolant Capacity L		26.3		42		36		35		68.4		92.5		93	
Battery×Quantity		95E41R×2		145G51×2 or 155G51×2						190H52×2 or 210H52×2					
Fuel Tank Capacity L		250		380				490							

UNIT

Dimensions	Length mm	3350	3700	3650	3750	4200	5480(5000)*3	5180(4700)*3
	Width mm	1080	1300	1300	1400	1400	1650	1650
	Height mm	1500	1750	1750	1800	2100	2400	2400
Dry Weight	kg	2450	3630	3670	4160	5420	8540	7535

SOUND LEVEL

7m dB (A) 1500/1800 rpm (min-1)*4	62	67	61	63	63	65	68	71	67	68	68	71	72	75
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\*1 Rated Voltage Classification

Frequency	50Hz	60Hz
②	190~220V 380~440V	190~240V 380~480V

\*5

\*2 Fuel consumption is based on operation at 75% load.

\*3 Shown unit lengths are with visor.(without visor)

\*4 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.

\*5 Depending on location and area,output voltage may differ from values listed in catalog.



DCA-220ESM



DCA-220SPK3



DCA-400SPK II



DCA-500SPK

SPECIFICATION TABLE(600kVA~1100kVA CLASS SOUNDPROOF TYPE)

MODEL		DCA-600SPK		DCA-610SPM		DCA-800SPK		DCA-800SPM		DCA-1100SPK		DCA-1100SPM2		
ALTERNATOR														
Frequency		Hz	50	60	50	60	50	60	50	60	50	60	50	60
Output Rating(kVA)	Continuous		550	600	554	610	700	800	700	800	1000	1100	1000	1100
	Standby		605	660	554	610	770	880	770	880	1100	1210	1100	1210
No.of Phases			3-Phase,4-Wire											
Rated Voltage*1		V	②Dual Voltage								③Single Voltage			
Power Factor			0.8 (Lagging)											
Voltage Regulation		%	Within ±0.5											
Excitation			Brushless,Rotating Exciter (With A.V.R.)											
Insulation			Class F											

ENGINE															
Maker & Model		Komatsu SA6D170A		Mitsubishi S6R-PTA		Komatsu SA12V140		Mitsubishi S12A2-PTA		Komatsu SAA12V140		Mitsubishi S12H-PTA			
Type		Inlined, Direct Injected, Turbocharged, Aftercooled				V12 Direct Injected Turbocharged, Aftercooled									
Output Rating	PS/rpm	639/1500	698/1800	703/1500	768/1800	834/1500	1000/1800	830/1500	920/1800	1171/1500	1324/1800	1210/1500	1292/1800		
	kW/rpm	470/1500	513/1800	517/1500	565/1800	613/1500	736/1800	610/1500	677/1800	861/1500	974/1800	890/1500	950/1800		
No. of Cylinders-Bore×Stroke		mm	6-170×170		6-170×180		12-140×165		12-150×160		12-140×165		12-150×175		
Piston Displacement		L	23.150		24.500		30.480		33.93		30.480		37.110		
Fuel		ASTM No. 2 Diesel Fuel or Equivalent													
Fuel Consumption*2		L/h	81.8	93.7	82.0	96.4	102	120	103	125	152	169	161	188	
Lube Oil Sump Capacity		L	119		92		151		120		207		200		
Coolant Capacity		L	112		118		170		205		237		210		
Battery×Quantity		190H52×2 or 210H52×2					190H52×4 or 210H52×4				145G51×4 or 155G51×4		190H52×4 or 210H52×4		
Fuel Tank Capacity		L	490								600		800		

UNIT							
Dimensions	Length mm	5580(5100)*3	5280(4800)*3	6110(5500)*3	6210(5600)*3	6510(5900)*3	6510(5900)*3
	Width mm	1650	1650	1950	1950	2200	2200
	Height mm	2400	2400	2500	2500	2790	2790
Dry Weight	kg	8860	8700	11200	11350	13000	14180

SOUND LEVEL													
7m dB (A) 1500/1800 rpm (min <sup>-1</sup> )*4		67	71	69	72	70	72	67	69	70	74	73	77

\*1 Rated Voltage Classification

	Frequency	
	50Hz	60Hz
②	190~220V 380~440V	190~240V 380~480V
③	380~440V	380~480V

\*2 Fuel consumption is based on operation at 75% load.  
\*3 Shown unit lengths are with visor. (without visor)

\*4 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.

\*5 Depending on location and area, output voltage may differ from values listed in catalog.



DCA-600SPK



DCA-800SPK



DCA-800SPM



DCA-1100SPK



SPECIFICATION TABLE (25kVA~150kVA CLASS SUPER SOUNDPROOF TYPE)

MODEL	DCA-25USI3	DCA-45USI2	DCA-60USH2	DCA-100USI	DCA-150USK
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ALTERNATOR

Frequency	Hz	50	60	50	60	50	60	50	60	50	60
Output Rating(kVA)	Continuous	20	25	37	45	50	60	80	100	125	150
	Standby	22	27.5	38.9	47.3	55	66	88	110	138	165
No.of Phases		3-Phase,4-Wire									
Rated Voltage*1	V	④Single Voltage (Dual Voltage is an option.)						②Dual Voltage			
Power Factor		0.8 (Lagging)									
Voltage Regulation	%	Within ±0.5									
Excitation		Brushless,Rotating Exciter (With A.V.R.)									
Insulation		Class F									

ENGINE

Maker & Model		Isuzu BV-4LE2		Isuzu BB-4JG1T		Hino W04D-TG		Isuzu DD-6BG1T		Komatsu SAA6D102E-2-D	
Type		Inlined, Direct Injected		Inlined,Direct Injected,Turbocharged						Inlined,Direct Injected, Turbocharged,Aftercooled	
Output Rating	PS/rpm	26/1500	31/1800	46.5/1500	56/1800	66/1500	78/1800	101/1500	126/1800	154/1500	184/1800
	kW/rpm	19.1/1500	22.9/1800	34.2/1500	41.2/1800	48.5/1500	57.4/1800	74.5/1500	92.8/1800	113/1500	135/1800
No.of Cylinders-Bore×Stroke		mm		4-85×96		4-95.4×107		4-104×118		6-105×125	
Piston Displacement		L		2.179		3.059		4.009		6.494	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent									
Fuel Consumption*2		L/h		3.6	4.5	6.7	8.4	8.3	10.2	13.4	17.1
Lube Oil Sump Capacity		L		8.5		10		16.5		22	
Coolant Capacity		L		6.8		10		11.9		20	
Battery×Quantity		80D26R×1		95D31R×1		80D26R×2		95D31R×2		95E41R×2	
Fuel Tank Capacity		L		80		170		170		225	

UNIT

Dimensions	Length mm	1550	1580	2050	2650	3100
	Width mm	790	950	950	1100	1240
	Height mm	1000	1550	1450	1500	1600
Dry Weight	kg	660	1100	1330	1940	2600

SOUND LEVEL

7m dB (A) 1500/1800 rpm (min <sup>-1</sup> )*3	50	54	51	53	52	55	55	57	55	58
------------------------------------------------	----	----	----	----	----	----	----	----	----	----

*1 Rated Voltage Classification			*4	
Frequency	50Hz	60Hz		
②	190~220V 380~440V	190~240V 380~480V		
④	190~220V (380~440V)	200~240V (380~480V)		

( ) Indicates options.

- \*2 Fuel consumption is based on operation at 75% load.
- \*3 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.
- \*4 Depending on location and area, output voltage may differ from values listed in catalog.



DCA-25USI3



DCA-45USI2



DCA-100USI

NOTE 1 OUTPUT RATING

- Continuous output rating applies to operation under standard conditions as per JIS D0006-1\*.
- Standby output rating applies to intermittent or emergency operation for approximately 1 hour as per JIS D0006-1.
- Kilowatts (kW) is calculated by multiplying output kVA by 0.8.
- \* JIS D0006: Standard air conditions Temperature 25°C Atmospheric pressure 100kPa Relative humidity 30%RH

NOTE 2 RATED VOLTAGE

- Line to neutral voltage is calculated by dividing line to line voltage by  $\sqrt{3}$ .
- Besides the voltages shown on the specification table, other voltages are available upon request.

NOTE 3

- Colours of products would be different from printed ones of catalogues.

# Options

## Remote Control Devices

The engine generator can be remotely changed from low speed to high speed operation, started and stopped, and otherwise controlled. The ability to perform these procedures automatically or manually at the location where work is being performed when the engine generator is separated by a considerable distance provides high fuel and oil savings, extends engine life substantially, and leads to a surprising level of reduction in manpower and energy requirements. In addition, this also minimizes noise and exhaust gas discharge levels, and in turn helps improve the worksite environment.

## Automatic Idling Device

**Automatic Idling Device**  
( Provided as standard feature for DCA-220 and above)  
This device automates warm-up operation when the engine is started. The addition of a remote-control box allows remote changeover between low-speed and high-speed operation. (Please note that the engine cannot be started and stopped with the remote-control box.)

**Remote Controller** (For DCA-220 to 1100)  
This device allows the engine starting/stopping and automatic idling function (idling when engine is started) to be operated from a remote location. In addition to a switch for changeover between high-speed and low-speed operation, the remote-control box has a high-speed/low-speed operation indicator lamp, a startup warming lamp (comes on when generator set is not started up using normal remote controller operation), and a malfunction indicator lamp (illuminated when the emergency stop device is triggered).

**Note:** The remote-control box for the DCA-800SPM differs from the picture.



## Automatic Oil Lubrication Device

(For DCA-25 to 1100, provided as standard feature for 610SPM, 800SPM, and 1100SPM2) (Cannot be used with 25USI3, 25ESK)  
This system automatically maintains engine oil at the proper level, making it possible to reduce costs for oil-related maintenance, and eliminates the need to check the engine oil level.



## Automatic Fuel Replenishment Device

(For DCA-25ESI, 45 to 60)  
When the level in the unit tank drops after an extended period of operation, a level sensor detects this and an electric pump is operated to automatically replenish fuel in the unit tank from a separate tank.  
(Cannot be used with three-way valve.)

## Salt Corrosion Resistant Specifications

(For DCA-13 to DCA-220, provided as standard feature for DCA-300 and above)  
These specifications are designed for when the unit will be used on the coast or on the ocean, and include treatment to prevent insulation resistance from dropping, and corrosion resistant treatment of the parts.

## Parallel Operation Device

A variety of optional devices are available to change from manual parallel operation to the desired type of automatic operation. Select the desired option from the table below according to the power supply application, site conditions and other factors.

Operation Method	Engine Starting / Stopping	Synchronization Verification/ Activation	Load Sharing	Remarks
Manual Parallel Operation Device	Manual	Manual	Manual	Standard feature for DCA-125 to 1100
Automatic Load Sharing Device	Manual	Manual	Automatic	For DCA-150 and above
Automatic Parallel Operation Device	Manual	Auto operation with pushbutton	Automatic	For DCA-220 and above. Standard feature for DCA-1100SP
Fully Automatic Parallel Operation Device (with GCP generator controller)	Semi-automatic Automatic	Automatic	Automatic	Refer to (4) below for applicable units.

- (1) **Manual Parallel Operation Device:** Parallel operation system with unique Denyo AVR equipped with a cross-current compensation circuit (CCR system). This is the most inexpensive system, where no additional equipment is required for the DCA-125 and above.
- (2) **Automatic Load Sharing Device:** This device operates a governor motor to share the load uniformly among the respective generators when parallel operation is being performed. It facilitates stable parallel operation, and dramatically reduces the workload of monitoring during parallel operation.
- (3) **Automatic Parallel Operation Device:** The troublesome synchronization verification and synchronization activation process can be automatically performed by simply pressing a pushbutton. After synchronization is activated, the Automatic Load Sharing Device is capable of performing stable parallel operation.
- (4) **Fully Automatic Parallel Operation Device:** High-speed digital control enables all operations from starting and stopping to synchronization verification, synchronization activation and load sharing to be performed at the touch of one button. This device has multiple functions that enable parallel operation of generators with differing capacities, the number of units being operated to be controlled and other operations.  
**Applicable models:** DCA-220ESM, 610SPM, 800SPK, provided as standard feature for DCA-800SPM.
- (5) The generator may be classified as a normal use generator according to the Electricity Enterprises Law depending upon the installation and operation procedure. Consult with a sales person for details.

## Trailer

Trailers can be fitted to generators to facilitate on-site movement. (trailers for DCA-60 and below are two-wheel; those for DCA-75SP through 400 are four-wheel)  
Bolt connectors make mounting and dismounting simple.



Two-wheel type



Four-wheel type

## Other Options

The following options are also available:

- **Reverse power relay**  
 (For DCA-125 and above. Provided as standard feature for DCA-800, DCA-1100SP)
- **AC power meter**  
 (For DCA-125 and above. Provided as standard feature for DCA-800, DCA-1100SP)
- **Dual-voltage specifications**  
 (For DCA-25USI3, 45USI2, 60ESH, 60USH2. Provided as standard feature for DCA-25ESK, 25ESI, 45ESI, 60ESI2, 75SPI, DCA-100 to 800. Not available for DCA-13LSK, 13LSY, 15LSK, 20LSK, 35SPK, DCA-1100SP)
- **Bearing/stator temperature gauge** (For DCA-125 and above. Provided as standard feature for DCA-800SPK, 800SPM, DCA-1100SP)
- **Lubricant temperature gauge**  
 (Provided as standard feature for DCA-220 and above)
- **Overspeed protection device**  
 (Provided as standard feature for DCA-600SPK, DCA-610SPM, DCA-800S, DCA-1100SP)
- **Keyed fuel tank cap**  
 (For DCA-13 to 1100)
- **Mounting of muffler flange**

Other options for different ranges and operating capabilities are available. Please consult with Denyo.

\* Some options may not be available depending upon the model. Confirm the Denyo sales person.





**DIESEL GENERATING SETS**  
**SOUNDPROOF TYPE**  
(SINGLE PHASE TYPE · THREE PHASE TYPE)

Developing Technology Tomorrow's Power Needs.

**Denyo®**

# **TLG**Series

***Ecological Power Source  
for the EARTH***



**TLG-12LSX**



**TLG-13LSY**

**Denyo Co., Ltd.**

# GENERATOR

## TLG SERIES: Soundproof Diesel Engine

TLG SERIES: DENYO'S newly developed technology has been utilized with environmental considerations. This TLG series are three phase and single phase models. These models are equipped with the engine of two poles and it can meet in any applications. Incorporating a revolutionary compact design, using advanced "Know-How", it improves in operation, performance characteristics, and maintainability. The TLG Series illustrates that DENYO is keeping it's commitment to develop new technology for tomorrow's power needs.



TLG-12LSX

TLG-12LSX • 15LSX



### — SINGLE PHASE TYPE —



TLG-15LSX



① Circuit Breaker (Output Terminals) ② Frequency Meter ③ AC Ammeter ④ AC Voltmeter ⑤ Warning Light (Oil Pressure, Water Temperature, Charge) ⑥ Hour Meter ⑦ Starter Switch ⑧ Voltage Regulator ⑨ Single-phase Output Terminals ⑩ Earth Leakage Relay

## Improvements in Operation and Maintainability

### Newly Developed, High-Performance, Generator

The TLG Series suppress the wave distortion at the minimum for thyristors, inverter controls, computers, or X-rays. A start characteristic improves for motor loads. Also using a high-efficiency Automatic Voltage Regulator (AVR) enables few voltage regulations. The voltage regulation is within  $\pm 1.0\%$  for single phase models and within  $\pm 1.5\%$  for three phase models.

### Automatic Fuel Air Extractor

Air trapped in the fuel system can be troublesome. However, with the TLG Series, fuel air extraction is automatically performed by simply operating the starter switch, without using tools or devices. There is no soiling the machine's interior or the operator's hands. And the outflow of fuel to the machine's exterior is prevented.

### Prolonged Operating Periods

Using fuel efficient engines, in conjunction with the high-efficiency alternator, means fuel costs are reduced and enables the TLG Series to be operated continuously for periods between 9 and 13 hours.

### One-Sided Maintenance

The TLG Series are designed that daily maintenance can be done by one side of the machine. In addition, the radiator can be easily cleaned by removing its cover.





# REVOLUTION

## Generators

### — THREE PHASE TYPE —



TLG-7.5LSK

TLG-13LSY-18LSY



① Circuit Breaker (Three Phase Output) ② Circuit Breaker (Output Socket) ③ Frequency Meter ④ AC Ammeter ⑤ AC Voltmeter ⑥ Engine Monitor ⑦ Starter Switch ⑧ Voltage Regulator ⑨ Earth Leakage Relay ⑩ Adjustable Speed Lever ⑪ Adjustable Frequency Screw ⑫ Single-phase Output Socket (2x15A) ⑬ Ground Terminal (For Bonnet) ⑭ Three Phase Output Terminals



TLG-13LSY



TLG-18LSY

## Additional Features

### 50Hz / 60Hz Operation

You can operate the TLG Series at both 50Hz and 60Hz by simply adjusting the engine speed using the throttle control knob on the control panel.

### Compact Design

The compact and stackable design of the TLG Series facilitates the most effective use of storage space. All the machines are equipped with a balanced, centered lifting lug (hook) to further enhance generator's portability.

### Emergency Shut-Down Devices

To protect the generator from malfunctions, a warning lamp and an in-built emergency system are standard specification to detect the low oil pressure, high water temperature, and failure of charging. If these abnormalities are detected, the warning lamp will light up and the engine will come to an emergency stop. There is also a circuit breaker to shutdown immediately in the case of AC overload.

### Optional Earth Leakage Relay

To prevent electric shock, it is recommended that these generators are equipped with leakage detectors and a relay circuit breaker.

## Eco-Friendly/Eco-Conscious Series (Models)

### Extremely Quiet Operation: 68dB(A) or less.

This high-speed system operates at low noise levels that will not disturb the human environment. This has been achieved by using highly effective sound-insulating materials and a unique duct construction, which is a part of the advanced cooling system developed by Denyo.

### Use of Clean Engines

The used in these generators meet the Californian Atmospheric Pollution Regulation, which is one of the world's most stringent anti-pollution standards. This is achieved by these engines using a PCV (Purge Control Valve) system. Therefore, these engines do not discharge blow-by gas to the outside, which keeps the interior of the machine cleaner and exhaust emissions are minimized.



## SPECIFICATIONS

Models		SINGLE PHASE TYPE						THREE PHASE TYPE					
		TLG-6LSX		TLG-12LSX		TLG-15LSX		TLG-7.5LSK		TLG-13LSY		TLG-18LSY	
Alternator	Frequency(Hz)	50	60	50	60	50	60	50	60	50	60	50	60
	Output(kVA)	5.0	6.0	10.5	12.0	13.0	15.0	6.5	7.5	10.5	13.0	15.0	18.0
	Voltage(V)	2-Wire 50Hz:100-120 or 200-240 60Hz:100-120 or 200-240 or 3-Wire 50Hz:100/200 ~120/240 60Hz:100/200 ~120/240						50Hz:190 ~ 240 (380 ~ 480) 60Hz:190 ~ 240 (380 ~ 480)					
	Rotating Speed(min <sup>-1</sup> )	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600
	Power Factor	1.0						0.8(Lagging)					
	No. of Phase	Single Phase,2-Wire or Single Phase,3-Wire						Three Phase,4-Wire					
	No. of Poles	2.0											
	Excitation	Brushless(with AVR)											
	Insulation	Class F											
Diesel Engine	Model	Kubota Z482-K3A		Yanmar 3TNV70-F		Yanmar 3-3TNV76G		Kubota Z482-K3A		Yanmar 3TNV70-F		Yanmar 3-3TNV76G	
	Type	4-cycle,Water-cooled											
	No. of Cylinders-Bore×Stroke(mm)	2-67×68		3-70×74		3-76×82		2-67×68		3-70×74		3-76×82	
	Piston Displacement(L)	0.479		0.854		1.115		0.479		0.854		1.115	
	Rated Output(kW/min <sup>-1</sup> )	6.8/3000	8.0/3600	12.6/3000	15.4/3600	15.8/3000	18.9/3600	6.8/3000	8.0/3600	12.6/3000	15.4/3600	15.8/3000	18.9/3600
	Battery(V-Ah×piece)	12-36×1		12-55×1		12-55×1		12-36×1		12-55×1			
	Fuel	ASTM No.2 Diesel Fuel, or Equivalent											
	Fuel Tank Capacity(L)	26		51				26		51			
	Fuel Consumption(L/h)	1.7	2.1	3.3	4.0	3.9	4.9	1.7	2.1	2.8	3.5	3.8	4.7
	Sound Levels 7mdB(A)	61	63	63	65	67	68	61	63	63	66	67	67
Dimensions,Weight	Length(mm)	1220		1400		1400		1220		1400			
	Width(mm)	610		690		690		610		690			
	Height(mm)	720		930		930		720		930			
	Dry Weight(kg)	260		407		440		260		406		440	

- TLG-6LSX is production on order.
- 3-wire type is available as option.
- Rated Output applies to operating under standard conditions as per JIS B8014.
- Fuel consumption is based on operation at 75% load.
- Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.
- Colors of products would be different from printed ones of catalogues.
- Specifications given herein are subject to change without notice.



# SPECIFICATION / 3-PH 50Hz 1500RPM

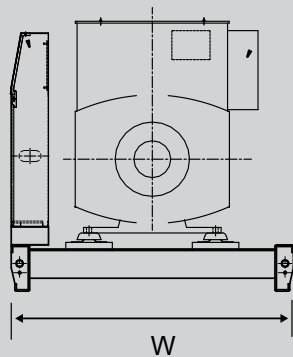
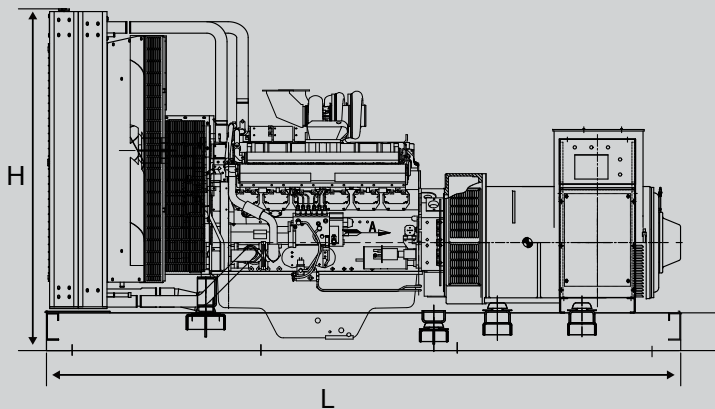


Powered by Original Cummins Engines

Gensets	Prime Power		Standby Power		Engine	Alternator	Open Sets		Soundproof Sets		
	kVA	kW	kVA	kW			L*W*H(mm)	Weight(kg)	L*W*H(mm)	Weight(kg)	dB(A)@7m
R-C10	10	8	11	9	X1.3G2	PI044E	1760*820*1300	330	2230*1030*1340	1050	68
R-C25	25	20	28	22	X2.5G2	PI144E	1760*820*1300	500	2230*1030*1340	1080	68
R-C35	35	28	39	31	X3.3G1	PI144H	1760*820*1300	590	2230*1030*1340	1120	70
R-C40	40	32	44	35	S3.8G4	PI144J	1760*820*1300	650	2380*1030*1300	1160	70
R-C50	50	40	55	44	S3.8G6	UCI224D	1840*820*1320	690	2530*1030*1460	1350	70
R-C60	60	48	66	53	S3.8G7	UCI224E	1840*820*1320	790	2530*1030*1460	1400	70
R-C80	80	64	88	70	QSB5G3	UCI224G	1840*820*1320	940	2530*1030*1460	1560	70
R-C100	100	80	110	88	QSB5G5	UCI274C	2300*900*1440	970	2820*1080*1500	1600	70
R-C135	135	108	149	119	QSB5G6	UCI274E	2300*900*1440	1080	3190*1130*1660	1700	72
R-C150	150	120	165	132	QSB7G3	UCI274F	2550*960*1590	1170	3430*1150*1720	1800	72
R-C180	180	144	198	158	QSB7G4	UCI274G	2550*960*1590	1200	3430*1150*1720	2020	72
R-C200	200	160	220	176	QSB7G5	UCI274H	2550*960*1590	1350	3430*1150*1720	2080	75
R-C225	225	180	248	198	QSL9-G2	UCDI274J	2860*1120*1800	1700	4000*1450*2050	2100	75
R-C250	250	200	275	220	QSL9-G3	UCDI274K	2860*1120*1800	2200	4000*1450*2050	3000	75
R-C300	300	240	330	264	QSL9-G5	HCI444D	2860*1120*1800	2500	4000*1450*2050	3350	75
R-C450	450	360	495	396	QSX15-G6	HCI544C	3400*1500*2000	4250	5050*1850*2060	5000	78
R-C500	500	400	550	440	QSX15-G8	HCI544D	3400*1500*2000	4250	5050*1850*2060	5050	78
R-C600	600	480	660	528	QSK19-G2	HCI544E	3660*1450*2280	6000	5030*1850*2190	7500	80
R-C625	625	500	688	550	VTA28-G5	HCI544FS	3820*1880*2290	6000	5650*2150*2510	8000	80
R-C650	650	520	715	572	QSK19-G3	HCI544F	3660*1450*2280	6200	5030*1850*2190	8500	80

R-C750	750	600	825	660	VTA28-G6	HCI634G	4120*1570*2150	6700	6050*2435*2585( 20P)	8700	80
R-C800	800	640	880	704	QSK23-G3	HCI634G	4200*1770*2270	7000	6050*2435*2585( 20P)	9000	80
R-C910	910	728	1001	801	QST30-G3	HCI634H	4200*1770*2270	7450	6050*2435*2585( 20P)	9450	80
R-C1000	1000	800	1100	880	QST30-G4	HCI634J	4400*2060*2620	8000	6050*2435*2585( 20P)	10050	80
R-C1125	1125	900	1238	990	KTA38-G9	HCI634K	4400*2060*2620	8350	6050*2435*2585( 20P)	10500	82
R-C1250	1250	1000	1375	1100	KTA50-G3	PI734A	5500*2180*2520	10150	12192*2435*2896( 40HP)	12000	83
R-C1400	1400	1120	1540	1232	KTA50-G8	PI734B	5500*2180*2520	11000	12192*2435*2896( 40HP)	13500	83
R-C1500	1500	1200	1650	1320	KTA50-GS8	PI734C	5600*2210*2550	11000	12192*2435*2896( 40HP)	13500	83
R-C1650	1650	1320	1815	1452	QSK50-G7	PI734D	6040*2180*2650	12000	12192*2435*2896( 40HP)	14500	83
R-C1825	1825	1460	2008	1606	QSK60-G12	PI734E	6500*2500*3060	12600	12192*2435*2896( 40HP)	15200	83
R-C1875	1875	1500	2063	1650	QSK60-G3	PI734E	5900*2200*2550	15100	12192*2435*2896( 40HP)	17600	83
R-C2000	2000	1600	2200	1760	QSK60-G4	PI734F	5900*2200*2550	15400	12192*2435*2896( 40HP)	17900	85
R-C2200	2200	1760	2420	1936	QSK60-G13	PI734G	6500*2500*3060	16000	12192*2435*2896( 40HP)	18500	85

1. Above Gensets all base on 50Hz,1500RPM,Rated Voltage 400V/230V,Power factor is 0.8lag and connecting method are 3phase &4Wire.
2. Above technical date would not be as shipment date.
3. The technical date is subject to change without notice because of the technology progress.
4. "S"-Soundproof Sets.



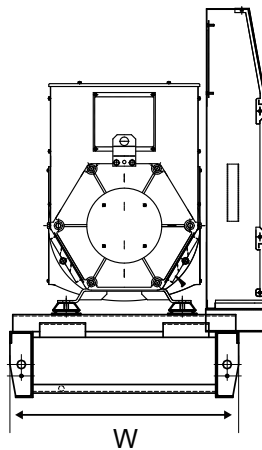
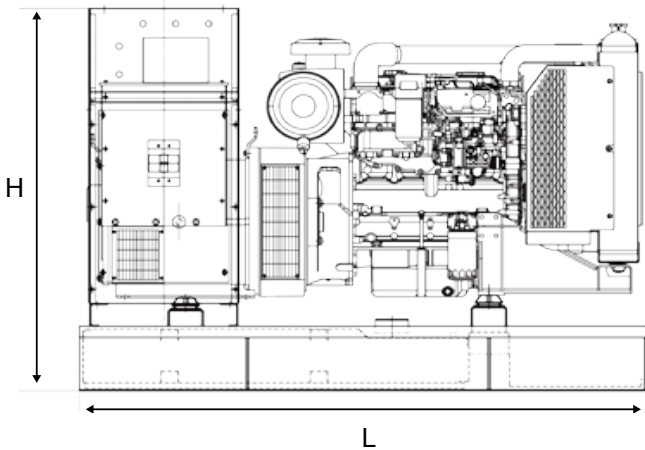
SPECIFICATION / 3-PH 50Hz 1500RPM



Powered by Perkins Engines

Gensets	Prime Power		Standby Power		Engine	Alternator	Open Sets		Soundproof Sets		
	kVA	kW	kVA	kW			L*W*H(mm)	Weight(kg)	L*W*H(mm)	Weight(kg)	dBA@7m
R-P9	9	7	10	8	403D-11G	PI044E	1160*780*1170	700	1830*750*1070	1050	68
R-P9-1	9	7	10	8	403A-11G1	PI044E	1160*780*1170	720	1830*750*1070	1080	68
R-P13	13	10	14	11	403D-15G	PI044F	1160*780*1170	800	1830*750*1070	1120	70
R-P13-1	13	10	14	11	403A-15G1	PI044F	1160*780*1170	820	1830*750*1070	1160	70
R-P20	20	16	22	18	404D-22G	PI144D	1300*780*1180	840	2030*750*1105	1160	70
R-P20-1	20	16	22	18	404A-22G1	PI144D	1300*780*118	900	2030*750*1105	1350	70
R-P30	30	24	33	26	1103A-33G	PI144G	1510*815*1200	920	2230*930*1305	1400	70
R-P45	45	36	50	40	1103A-33TG1	PI144K	1680*825*1230	1100	2480*1030*1315	1520	70
R-P60	60	48	66	53	1103A-33TG2	UCI224E	1680*825*1230	1140	2480*1030*1315	1560	72
R-P65	65	52	72	57	1104A-44TG1	UCI224F	1860*855*1250	1150	2600*1030*1500	1600	72
R-P80	80	64	88	70	1104A-44TG2	UCI224G	1860*855*1250	1200	2600*1030*1500	1700	72
R-P80-1	80	64	88	70	1104C-44TAG1	UCI224G	1900*890*1310	1300	2780*1030*1460	1800	75
R-P100	100	80	110	88	1104C-44TAG2	UCI274C	1900*890*1310	1700	2780*1030*1460	2020	75
R-P135	135	108	149	119	1106A-70TG1	UCI274E	2500*915*1570	1700	3330*1160*1500	2080	75
R-P150	150	120	165	132	1106A-70TAG2	UCI274F	2500*915*1570	1800	3330*1160*1500	2450	75
R-P180	180	144	198	158	1106A-70TAG3	UCI274G	2500*915*1570	1850	3330*1160*1500	2550	78
R-P200	200	160	220	176	1106A-70TAG4	UCI274H	2500*915*1570	2000	3330*1160*1500	2600	78
R-P230	230	184	253	202	1506A-E88TAG2	UCI274J	2650*955*1680	2800	3730*1450*1910	3400	80
R-P250	250	200	275	220	1506A-E88TAG3	UCDI274K	2650*955*1680	2800	3730*1450*1910	3400	80
R-P275	275	220	303	242	1506A-E88TAG4	HC1444D	2820*1055*1720	2650	3730*1450*1910	3100	80
R-P300	300	240	330	264	1506A-E88TAG5	HC1444D	2820*1055*1720	2700	3730*1450*1910	3150	80

1. Above Gensets all base on 50Hz,1500RPM,Rated Voltage 400V/230V,Power factor is 0.8lag and connecting method are 3phase &4Wire.
2. Above technical date would not be as shipment date.
3. The technical date is subject to change without notice because of the technology progress.
4. "S"-Soundproof Sets.

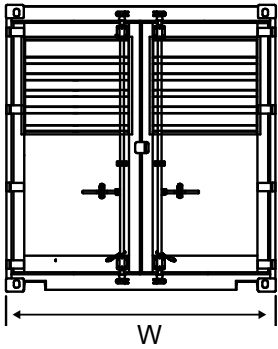
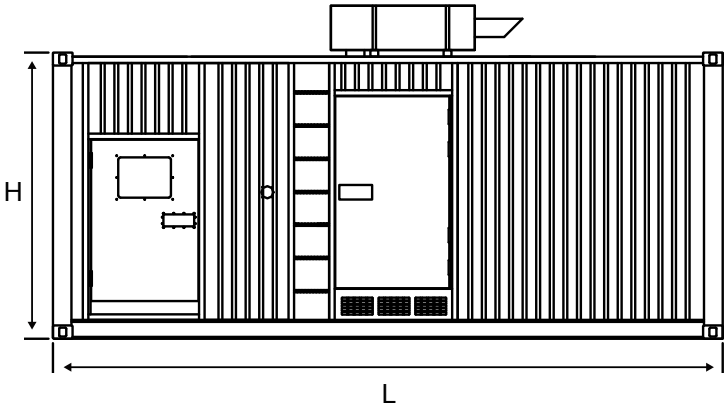




SPECIFICATION / 3-PH 50Hz 1500RPM

Gensets	Prime Power		Standby Power		Engine	Alternator	Open Sets		Soundproof Sets		
	kVA	kW	kVA	kW			L*W*H(mm)	Weight(kg)	L*W*H(mm)	Weight(kg)	dBA@7m
R-P350	350	280	385	308	2206C-E13TAG2	HCI444E	3200*1120*2050	3450	4530*1700*2060	3900	80
R-P400	400	320	440	352	2206C-E13TAG3	HCI444F	3200*1120*2050	3500	4530*1700*2060	4000	80
R-P450	450	360	495	396	2506C-E15TAG1	HCI544C	3530*1120*2070	3600	5030*1850*2060	4200	80
R-P500	500	400	550	440	2506C-E15TAG2	HCI544D	3530*1120*2070	3700	5030*1850*2060	4500	80
R-P600	600	480	660	528	2806C-E18TAG1A	HCI544E	3420*1550*2100	4000	5030*1850*2510	5000	80
R-P650	650	520	715	572	2806A-E18TAG2	HCI544F	3420*1550*2100	4600	5030*1850*2510	5500	82
R-P725	725	580	798	638	4006-23TAG2A	HCI634G	4300*1750*2460	5300	6050*1950*2510	6800	82
R-P800	800	640	880	704	4006-23TAG3A	HCI634G	4300*1750*2460	5500	6050*1950*2510	7000	83
R-P900	900	720	990	792	4008TAG1A	HCI634H	4730*2100*2540	7700	6050*2435*2585( 20P)	9200	83
R-P1000	1000	800	1100	880	4008TAG2A	HCI634J	4730*2100*2540	7900	6050*2435*2585( 20P)	9400	83
R-P1250	1250	1000	1375	1100	4012-46TWG2A	PI734A	4850*2000*2450	10000	12192*2435*2896( 40HP)	11500	83
R-P1365	1365	1092	1502	1201	4012-46TWG3A	PI734B	4850*2000*2450	10100	12192*2435*2896( 40HP)	11600	83
R-P1500	1500	1200	1650	1320	4012-46TAG2A	PI734C	5150*2230*2550	10200	12192*2435*2896( 40HP)	11800	83
R-P1650	1650	1320	1815	1452	4012-46TAG3A	PI734D	5150*2230*2550	10200	12192*2435*2896( 40HP)	11900	85
R-P1850	1850	1480	2035	1628	4016TAG1A	PI734E	5800*2850*3250	13000	\	15000	85
R-P2000	2000	1600	2200	1760	4016TAG2A	PI734F	5800*2850*3250	13500	\	15500	85
R-P2250	2250	1800	2475	1980	4016-61TRG3	PI734G	6960*2200*3070	15000	\	18000	85

1. Above Gensets all base on 50Hz,1500RPM,Rated Voltage 400V/230V,Power factor is 0.8lag and connecting method are 3phase &4Wire.
2. Above technical date would not be as shipment date.
3. The technical date is subject to change without notice because of the technology progress.
4. "S"-Soundproof Sets.





## Soundprof Generators

### R-P SERIES - 50Hz | 60Hz

- Driven by well known Perkins engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Built in a separate fuel injector, more economical fuel consumption
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Emissions optimized to meet the Euro emission standards and the U.S. EPA Standards
- Power range: 7-2000kW

### R-C SERIES - 50Hz | 60Hz

- Driven by well known Cummins engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 8-1980kW

### R-XC SERIES- 50Hz | 60Hz

- Driven by well known FAWDE engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 12-330kW



#### **R-V SERIES - 50Hz | 60Hz**

- Driven by well known Volvo engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 56-605kW

#### **R-L SERIES- 50Hz | 60Hz**

- Driven by well known Lovol engine, powerful
- Four stroke, water cooled, exhaust turbo charger, intercooler
- Unique piston and cylinder design
- Excellent exhaust and cooling system, high-performance in security
- Power range: 20-161kW

#### **R-I SERIES- 50Hz | 60Hz**





## Containerized Generators

### 20 Foot - 50Hz/60Hz

- Power range: 600-990kW;
- Refitted by standard 20ft container;
- Laying sound-absorbing cotton and metal perforation plate around the internal box and the ceiling;
- Laying Anti-skid pattern aluminum sheet on the container floor;
- Noise: 80 ~ 85dB(A)@7m;
- Equip with control room, fuel supply system, lighting system and maintenance space in the container

### 40 Foot - 50Hz/60Hz

- Power range: 1000-1980kW;
- Refitted by standard 40ft container;
- Laying sound-absorbing cotton and metal perforation plate around the internal box and the ceiling;
- Laying Anti-skid pattern aluminum sheet on the container floor;
- Noise: 83 ~ 88dB(A)@7m;
- Equip with control room, fuel supply system, lighting system and maintenance space in the container





### **Mobile Generators**

- Design for outdoor power demand and mobile operation;
- Be divided into single axle with two wheels and double axles with four wheels;
- Equipped with torsion axis vibration damping and dual brake to ensure the safety of moving;
- Add residential silencer, can greatly reduce the exhaust noise of the engine;
- The canopy is made of rainproof structure, has the access door and viewing window;
- Cable reel and junction box can be installed.



## Power Distribution System

### ATS:

As on-an automation equipment for main/standby transferred power supply, ATS and diesel generator composed to be emergency power system when the mains failure. It is widely used in bank, hospital, telecommunication, airport, hotel, etc.

### Features of ATS:

- Automatic transfer switch
- Manual/Auto option
- Mechanical and electrical interlock ensure safety and reliability
- Acid cleaning, phosphate treatment and plastic spray on the surface
- Steady performance and durability





## Paralleling System:

Paralleling system works together with generating sets can automatically control a number of diesel generating sets running in network.

Compared with single generating sets, the advantages are steady power and voltage, huge-volume load impact burdening and reliable electricity supply.

## Features of paralleling system:

- PLC centralized logic control
- Easy to extend the volume to satisfy the need of load increase
- Synchronizer auto capture and parallel
- Load divider automatically divide load according to proportion
- Auto add and lessen the number of sets according to load capacity
- Short circuit, overload and reverse power protection
- Max. 32 paralleling sets
- Rotate operation of many sets



DENYO AGGOUR Diesel Generator Company

شركة دنيو عجور للمولدات الديزل



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