

CE

50Hz Standby 42KVA

# DG42S

## Diesel Generator



**All Days | Safty | Reliable | Stability**



# KOMPAK

# FEATURE

# KOMPAK

## Multi socket output

Multi socket output is a standard configuration for diesel generators, which can be adapted to various power output sources

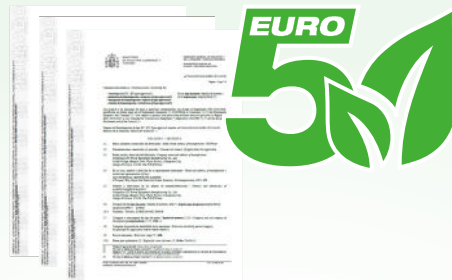


## Control System

Support engine and alternator monitoring, measurement and protection. This is long-running and back-up unit to integrate the best way to control. Support Modbus standard, modem, RS232, RS485, USB and internet.

## Euro 5 emission standards

Complies with Euro 5 emission standards



## Silent Canopy

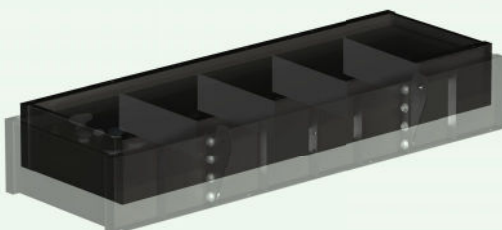
The generator set has good mute effect, overall compact structure, and occupies small space



Anti surge Design

## Bounded tank

The 12 hour operating fuel tank is a standard configuration for diesel units, and a double layer fuel tank can prevent fuel leakage.



## Trailer

Mobile generators give you dependable power anywhere, from remote construction sites to public events and storm recovery.



## Forklift holes

With base frame forklift hole and generator canopy lifting hole





## Design Standards

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009
- JB/T20136-2006
- YD/502-2007
- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability
- Voltage deviation and speed variation
- Customizable process and color
- Optional manufacturer
- Installation place: Outdoors or indoors
- Ambient temperature: -25°C to 50°C
- Humidity: Less than 80%
- Altitude: Below 1000 meters

## Features

- Excitation system: Self excited
- Key switch
- Emergency stop switch
- Mains input
- Remote communication connector
- Battery isolator switch
- Powder coated canopy
- Steel base frame with forkslots
- 40°C radiator
- Dry type air filter
- Base fuel tank for 12 hours running
- Auxiliary water tank
- Terminal output
- Euro III certificate
- Operation Manual / Specifications

## Technical Specification

Generator	DG42S
Emission standard	EU Stage V
Tank capacity	140L
Noise level @7m	60dBA
Dry weigh	1050kg
Dimensions L x W x H	2100x1000x1250 mm
Prime Power	37.5KVA
Prime Power	30KW
Standby Power	41.3KVA
Standby Power	33KW

### Voltage

Steady state regulation	%	$\leq \pm 0.5$
Dynamic voltage renewal	%	$\leq +20 \sim -15$
Stable time	Sec	2.0
Waveform distortion	%	$\leq 3$
Volatility	%	$\leq 0.5$

### Frequency

Steady state regulation	%	$\leq \pm 1$
Dynamic frequency renewal	%	$\leq +10 \sim -7$
Stable time	Sec	$\leq 3$
Volatility	%	$\leq 0.5$

### Environment require

Temperature	°C	$\leq 40$
Humidity	%	$\leq 60$
Altitude	m	$\leq 1000$

### Standard

ISO3046、ISO8528

## Dimension | Weight | Sound



Length	mm	2100
Width ( W )	mm	1000
Height ( H )	mm	1250
Weight net	Kg	1050
loading capacity (units/container)		
Sound @7 meter	dB	

## Note

1. Generator continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hours period
2. Every generator strictly test on 0%、25%、75%、100%、110% load 、dynamic of the responsiveness ability, and all protections



## DIESEL ENGINE

### Powerful engine and reliable running quality

Durable running performance and was proofed by vehicle's application

### Compact structure

Compact structure and metal materials saving for low cost

### Low maintenance and repair cost

Air, fuel and oil tubes are silicone and stainless steel materials, which reduce leakage problems substantially

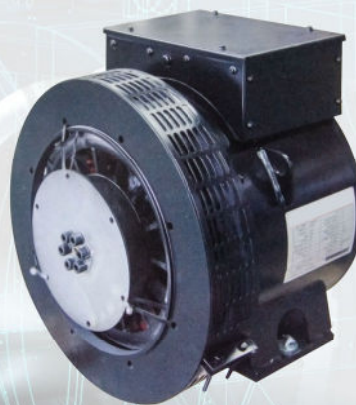
### Excellent start performance

Fuel injector and pump were tested fully in Various environments, which provide excellent start and running performance

Engine	4F24TIG11
Rated power/Speed	37 KW / 1500rpm
Dry Weigh (approx.)	300 kg
Number of Cylinders	4
Bore	89 mm
Stroke	103 mm
Displacement	2.45 L
Compression Ratio	19: 1
Type of injection	Direct injection
Intake System	Natural
Intake Resistance	≤6.28 kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel	Diesel
Type of Oil	15W40-CF4
Oil Capacity	N/A
Type of Coolant	Glycol mixture
Coolant Capacity	N/A
Back Pressure	N/A
Fuel Consumption	230 (g/kW·h)

## ALTERNATOR

Alternator	184H
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Terminals	12
Drip Proof	IP23
Altitude	≤1000m
Air Flow	0.095 m³/s
Voltage Regulation	±1.0%
Telephone Interference	THF<2%;TIF<50
Total harmonic TGH / THCat no load	< 1.5 % - on load < 5%



### Best structure

Excellent design ensures compact structure and perfect appearance

### Excellent performance

Excitation enhanced system improves start and short circuit's protection performance

### Economy

Less parts involved and the most market's demand lead to cheap price and fine quality

### Easy maintenance and repair

Core parts won't be involved in repair job, AVR can be replaced easily, examining diode doesn't disassemble rotor.



# CONTROL PANEL



## Controller

AMF9



Support engine and alternator monitoring, measurement and protection. This is long-running and back-up unit to integrate the best way to control.

## Control panel



Measurement, displayment	AMF9
Genset prime power Kw	●
Power factor	●
engine speed	●
Phase to neutral voltage	●
Phase to phase voltage	●
Genset frequency	●
Genset current	●
Mains Phase to neutral voltage	○
Mains Phase to phase voltage	○
Mains frequency	○
engine oil pressure	●
engine water temperature	●
fuel level	●
battery voltage	●
genset power KVA	●
Genset running time	●
Genset output KWh	●
History file	●
<b>Alarm, shutdown function</b>	
Low oil pressure warning, shutdown	●
High water temperature warning, shutdown	●
Engine over and under speed shutdown	●
Low fuel level warning, shutdown	●
battery low and high voltage warning	●
battery charging failure	●
Genset low and high voltage warning, shut down	●
Alternator 3 phase voltage unbalance shut down	●
Alternator low and high frequency warning, shut down	●
Genset over load shutdown	●
Alternator 3 phase current unbalance shutdown	●
Mains low and high voltage warning	○
Mains low and high frequency warning	○
<b>Optional</b>	
Remote start and stop	●
RS232 card	○
USB card	●
RS485 card	○
Multi language display	●
GPRS communication	○
GPS communication	○
CAN communication	●

● Standard ○ Optional × None

Multiple specifications of output sockets available for selection