



Powered by

Yangdong YD385D

PRIME 8.5KVA at 50Hz

DIESEL GEN-SET TECHNICAL SPECIFICATIONS

Genset Model	MKW8.5YD
Prime Power(50HZ)	8.5KW/8.5KVA
Standby Power(50HZ)	9.4KW/9.4KVA
Frequency/Speed	50Hz/1500rpm
Voltage	220V-230V
cos Ø	1
Phases	One phase
Voltage fluctuation	≤ ±1,5%
Frequency fluctuations	≤ 5%
Fuel consumption at 100% load L/H	3
Fuel consumption at 75% load L/H	2.25
Fuel consumption at 50% load L/H	1.6
Startup type	Electric start
Continuous operating time at 100% rated load	≥ 10 hours
Manufacturer	GOLDEN LEOPARD (NINGDE) POWER GENERATION EQUIPMENT CO.,LTD

(1) PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528:2005. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1.

(2) ESP: The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528:2005. Overload is not allowed.

(3) Booting capability: Capable of starting from 0% load to 100% within 30s

Engine Specifications

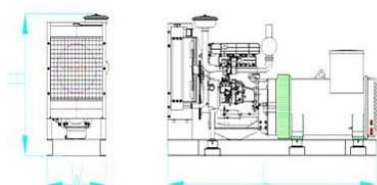
Engine Data	
Manufacturer	YANGDONG
Model	YD385D
Engine speed	1500rpm
Engine power	
-----Standby power	12kW
----- Prime power	11kW
No. of cylinders	3
Cylinders arrangement	in line
Thermodynamic Cycle	4 stroke
Aspiration	Natural
Injection System	Direct
Air intake system	Through air filter into combustion chamber
Cooling System	Liquid (water + 50% antifreeze) combined with shaft end blower
Bore * Stroke	85*90 mm
Displacement	1.532L
Compression Ratio:	18:1

Fuel System	Mechanical Pump
Lubrication system	Self-lubricating, full-flow filter, oil filter, Lubricating oil pump
Air exhaust system	Exhaust air using the exhaust pipe
Filter system	There is an air filter, fuel filter, oil filter and can be replaced
Governor	Mechanical or Electronic
Total system capacity	4L
Coolant capacity	6L
Starting system	Electric starter with 12V battery, automatic charging when running generator
Starting motor	12V-3KW
Starting battery	≥ 60Ah, airtight type
Battery charging power	14V - 0.5kW
Automatic safety shutdown	Low engine oil pressure/ High coolant temperature

Alternator Specifications

Alternator Manufacturer	GOLDEN LEOPARD (NINGDE) POWER GENERATION EQUIPMENT CO.,LTD
Alternator Model	BW-164C
Prime Power	10KW
Standby Power	11KW
Alternator Type	Closed type, Self-excited, brushless, voltage regulated by AVR
Rated Voltage	220V-230V
Rated Frequency	50HZ
Rated speed	1500 RPM
Voltage regulation mode	Auto
Alternator voltage regulation	±1%
Voltage stability	≤± 1.0%
Frequency regulation	≤ ± 5%
Voltage protection system output	- Aptomat protects against overload and short circuit - The AVR has voltage over-excitation protection
Winding pitch	2/3
Efficiency at 100% prime power load, power factor (4/4)	≥ 75,9%
Power factor	1
Phase	1 phase, 2 wires
Insulation class	H
Protection class	IP23
Max. altitude	≤ 1000m
Overload capacity	Capable of operating for 1 hour at 110% overload within any 12 hour operating period
Overspeed	2250 RPM

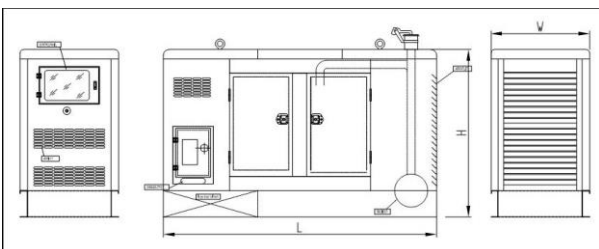
Open Version



Open Version

Overall size: 1750x800x1100 mm((L*W*H)
 Weight: 550kg
 Fuel tank: 35L

Soundproof Version



Soundproof Version

Overall size: 1847x896x1145mm(L*W*H)
 Weight: 648kg
 Fuel tank: 35L

Control Panel Specification(Standard) DSE7320 MKII

Manufacturer/Model: Deepsea/DSE7320 MKII	- High/Low Generator Voltage
Start button (RUN/START): YES	- High/Low Generator Frequency
Stop button (OFF/STOP): YES	- High/Low Battery Voltage
Auto mode button (AUTO): YES	- High/Low Engine Speed

C/O: YES	- Start-up failed
Manual button: YES	- Generator voltage, generator load current.
Set (Confirm setting mode...): YES	- Generator frequency Hz.
Up and down arrow keys: YES	- Number of hours of generator operation.
Aptomat protects against overload and short circuit: YES	- Generator error report, Battery voltage
Page left and right buttons: YES	- Overload/Overcurrent/Short Circuit
- Fault warning LED: YES	- Low Lubricating Oil Pressure
- Maintenance warning LED: YES	- High Coolant Temperature
- Operation status LED: YES	- Low Fuel Level
- PC connection: YES	- Emergency Stop Button Closed
- AMF function: YES	- Battery Charging Fault
- Emergency stop button: YES	- High/Low Generator Voltage

The basic equipment of the station includes

- ★Liquid-cooled diesel engine with radiator
- ★Synchronous generator
- ★Automatic generator protection device
- ★Lead-acid batteries, rack and cables
- ★Standard muffler
- ★Dry type air filter, fuel filter & oil filter
- ★Emergency stop system
- ★Fuel level sensor
- ★Battery disconnecter
- ★Electric starter
- ★Charging generator
- ★Battery charger
- ★Water preheater
- ★Based Fuel tank
- ★Digital controller with LCD display
- ★Documentation (warranty card, operation manual,and circuit diagram documents)

Sales Promises

Our Engineering provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before shipment.

Quality Warranty is according to our standard conditions: 12 months from BL date or 1,000 running hours, whichever comes first.

Service and parts are available from GOLDEN LEOPARD or distributors in your location.

SOUNDPROOF ENCLOSURE SPECIFICATION

Our silent generator is designed by professional acoustic engineers based on many years experience, Now we can make the noise of the generator less than 70dB(A) at 80% load at 7m.

High performance

- ★ multi-way air intake and exhaust guarantee the power performance of the generator.
- ★large-scale impedance combined type silencer effectively reduce noise of the generator.
- ★ internal high performance rubber damper and flexible materials reduce vibration.
- ★ Fuel tank supports the generator running for 8 hours.

Construction features

- ★ Cold steel materials of the canopy.
- ★ Best powder paint.
- ★ Zinc plated and Corrosion resistance.
- ★ Elegant appearance and reliable quality.
- ★ Stainless steel locks and hinges.
- ★ Access to all weather conditions.
- ★ Fireproof, waterproof and dustproof.
- ★ High quality soundproof materials could efficiently reduce noise.

Soundproof generator

- ★ Soundproof material: fireproof, ensuring safety for the machine. Does not increase generator temperature, does not reduce machine capacity.
- ★ Soundproof shell: firmly installed and equipped with doors on both sides for easy operation, maintenance and repair.
- ★ Material of soundproof shell and fuel tank: made of cold stamped steel sheet, powder coated 2 - 3 mm thick. Powder coated, high durability, heat resistant,

chemically treated to prevent corrosion and rust.

- ★ Fuel inspection, refueling and coolant outlets are conveniently located for easy monitoring and operation.
- ★ The battery installation position inside the soundproof housing is easy to check and ensures safety.
- ★ The fuel tank is firmly welded and fixed right under the generator, easy to check and add fuel.
- ★ The heat and smoke exhaust parts are designed to be sealed, sturdy, anti-vibration, and galvanized to prevent rust.
- ★ The silencer system is placed inside a soundproof housing
- ★ There is a quick-release cover to check and fill coolant located on the roof of the generator case
- ★ There is an oil drain pipe outside the machine case, making maintenance, replacement and discharge of lubricating oil, fuel, and coolant easy

Generator pedestal chassis

- ★ Compact, sturdy frame design, easy to transport, with shock absorbers for engine, alternator and machine base.
- ★ Frame is folded & welded with high quality standard steel plate, powder coated
- ★ The machine frame is built to be sturdy, load-bearing, and has damping and anti-vibration levels so that the machine operates smoothly and balanced, without affecting surrounding equipment and structures; has shock-absorbing rubber feet

Maintenance features

- ★ 180° revolvable and disassemble door for easy maintenance.
- ★ Concave lockable access door for easy operation and indefectible.
- ★ Lights inside of the canopy for maintenance.

Security and Safety

- ★ Transparent viewing window make the control panel clear at a glance.
- ★ Emergency stop button mounted on the canopy exterior for urgency.
- ★ Pipe of lube oil and cooling fluid is mounted on the bottom of generator for easy let.
- ★ Fuel fill and battery can easy be accessed by lockable door.
- ★ Cooling fan and battery are fully guarded.
- ★ Heat insulation of exhaust smoke system inside the canopy.

Transportation

- ★ Fork man slot is for choice.
- ★ Lifting ear is mounted in the base frame.