

ROTEK diesel generator 400V 50Hz (3-phase) with water-cooled 4-cylinder diesel engine and 18.5kVA (15kW) output power, GD4W-3-015kW-YND490DE-BBW

- Water-cooled 4-cylinder 2,417cc diesel engine - Yangdong YND490DE
- Meets Stage V emissions standards
- Low motor/generator speed of 1,500 rpm for long service life
- 3-phase brushless 400V/25kVA industrial generator section with electronic voltage regulation (AVR regulated)
- The generator is suitable for unbalanced loads - meaning phase loads can be different!
- Large, integrated 90-liter tank for approximately 20 hours of operation at a 15kW electrical load.
- Electronic engine control unit with plain text display
- Display and monitoring of voltage, current, frequency, power, and much more.
- Automatic engine stop in case of engine/generator malfunctions
- The device is delivered ready for operation with detailed German operating instructions.

Industrial and commercial generator with a water-cooled, 4-cylinder diesel engine in an open design.
Power is supplied via a 32A 400V CEE socket.
The unit is delivered ready for operation with a comprehensive German user and service manual.

Regarding the diesel engine:

The 4-cylinder in-line diesel engine is a direct-injection unit with a displacement of 2,417 cc. The engine is type-approved according to the latest Stage V EU/2016/1628 emissions standard.

The low rated engine speed of 1,500 rpm ensures a long service life.

An integrated engine preheater guarantees reliable starting even at low temperatures.

Regarding the generator unit:

The brushless synchronous generator has a maximum output of 25 kVA at a rated voltage of 400 V (230 V)/50 Hz.

The integrated electronic voltage regulator ensures excellent voltage stability, even with high reactive power levels.

Due to its special winding design, this generator is **suitable for unbalanced loads**. This means you can load the phases unevenly – making it ideal for supplying an existing distribution system (e.g., emergency power supply in a house).

Regarding the engine control unit:

This unit is equipped with the Rotek ECU-RTG3 engine control unit.

It offers/enables the following functions:

- Display of generator data such as current phase voltages and currents, frequency, power factor (cos φ), current total active power in kW, total energy output in kWh
- Display of engine data such as oil pressure, coolant temperature, alternator voltage, operating hours, etc.
- In addition to the engine data, the control unit also monitors generator data such as voltage, currents, frequency, and current power output and can stop the engine in an emergency or if individually adjustable limits are exceeded.
- The engine can be started and stopped manually via a button or an external contact, as well as according to a predefined schedule.
- Delay times and alarm limits are variably adjustable via a menu-driven, plain-text display.

We offer this generator model in both open and soundproofed versions.

We are happy to offer you optional additional modules such as coolant preheating, battery maintenance charger and ATS unit.

Technical data

Rotek article number	GEN243
EAN Code	9009970018641
Model	GD4W-3-015kW-YND490DE-BBW
Continuous power	18.5 kVA / 15 kW (400V)
Nominal voltage	400 (230) V, 50 Hz
Power consumption via	CEE400V/32A socket
Generator type	BBW-020-184-SAE
Generator design	3-phase brushless synchronous generator in star connection with neutral conductor
Voltage regulation	Electronically regulated, voltage regulator type (SX460)
Maximum phase current	27 A
Engine type	Yangdong YND490DE
Complies with emissions standards	Stage-V - EU/2016/1628
Engine design	2,417 cc 4-cylinder in-line diesel engine, direct injection
Engine power at 1500 rpm	18.0 kW
Motor speed controller	mechanically via centrifugal governor
Engine cooling	Water cooling with forced-air radiator and coolant pump
fuel	Diesel
Fuel consumption	At idle: approx. 1.5 l/h 7.5kW electrical load: 3.0 l/h (353 g/kWh) 15kW electrical load: 4.9 l/h (270 g/kWh)
Tank volume	90 liters
Engine control	electronic, type: ROTEK ECU-RTG3
Dimensions (W x D x H)	1460 x 700 x 1375 mm
volume	LWA 93 dB(A), 80 dB at 7 meters
Net weight (including coolant and engine oil)	544 kg

Additional information

Gross weight (excluding shipping packaging): 596 kilograms

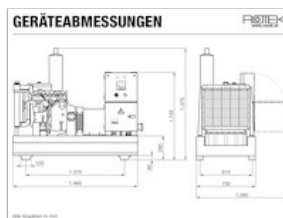
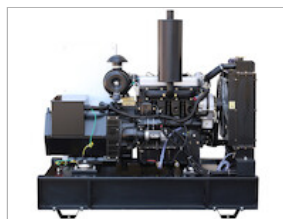
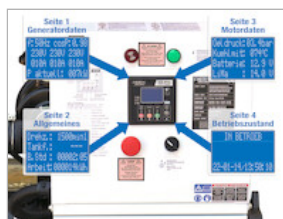
Gross product dimensions (L x W x H): 1.53 m x 770 mm x 1.19 m

Shipping method: General cargo by volume

documentation

- 📄 [Device manual \(German\)](#)
- 📄 [Installation manual \(German\)](#)
- 📄 [Engine Control Manual \(German\)](#)
- 📄 [Generator manual \(German\)](#)
- 📄 [Engine manual \(German\)](#)
- 📄 [Engine spare parts list](#)

Product images



Shipping weight (including outer packaging for 1 unit): 617 kilograms
Shipping dimensions for 1 unit (L x W x H): 1.53 m x 800 mm x 1.35 m
24-month warranty

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