



# DINGOL DG444D Three-phase Alternator 300 kVA AVR

## Product description:

### DINGOL DG444D THREE-PHASE 300KVA AVR

DINGOL DG444D is a three-phase brushless alternator capable of delivering a maximum power of 300KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG444D alternator are subjected to a specific coating and/or impregnation process to safeguard the generator's functionality and protect its critical peers under various conditions of use.

DINGOL DG444D responds optimally even in the presence of non-linear loads. This result is obtained by winding the electrical cable of the stators with a pitch of  $2/3$ , thus eliminating third order harmonics ( $3^\circ - 9^\circ - 15^\circ$ ) from the voltage curve. This also eliminates the excess of neutral current that sometimes appears with larger pitch windings, during parallel operation.

DINGOL DG444D are designed to guarantee an IP22 protection class for industrial use suitable for protection from normal weather conditions.

For extreme atmospheric conditions, models are available that also guarantee IP23 standard protection against water up to  $60^\circ$  from vertical. Marine use requires IP23 standard, and also a 5% derating of the alternator.

DINGOL DG444D is equipped with twelve terminal blocks and are delivered pre-configured in three-phase configuration unless otherwise specified by the customer. However, if it is necessary to change the configuration, a table of possible configurations is shown on the back of the termination box cover.

DINGOL DG444D is a brushless alternator, this feature together with the high efficiency of the AVR ensure a low level of interference with radio waves.



## AVR REGULATOR

The AVR is an electronic device that regulates the alternating current coming from the alternator and transforms it into direct current.

By means of a voltage regulator, it is possible to convert the alternating current into direct current and thus avoid voltage and current surges.

All synchronous machines, in order to work, need an electronic control system, and this device, known as AVR, guarantees the good working of the machine and above all of the electric network behind it.

The high efficiency of the AVR ensures operation even when the residual excitation current is very low. The output current from the excitation rotor that is used to power the main exciter passes through a wave rectifier bridge.

The rectifier itself is equipped with protection against overvoltages caused, for example, by a short circuit or a parallel made out of phase.

### TECHNICAL CHARACTERISTICS DINGOL DG444D

Phase type: Three-phase

Power supply voltage: 400 - 440 V

Frequency: 50 - 60 Hz

Maximum power (50 Hz): 240KW

Maximum power (50 Hz): 300KVA

Maximum power (60 Hz): 288KW

Maximum power (60 Hz): 360KVA

RPM: 1500 rpm

Efficiency %: 92.7

Brushes Type: Brushless

Voltage regulator: AVR

Degree of protection: IP22

Width: 1172 mm

Length: 776 mm

Height: 852 mm

Dry weight: 915 Kg

Are you looking for an alternator with different characteristics? [Here](#) you can find the whole range DINGOL or other specialized brands.

Images and technical data are not binding.

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**Product features:**

Phase: Three phase

Maximum power three phase (KW): 240

Maximum power three phase (KVA): 300

Frequency (Hz): 50 / 60

Voltage (V): 400

Engine rpm (rpm): 1500

Efficiency (%): 92.7

Protection degree: IP22

Length (mm): 1172

Width (mm): 776

Height (mm): 852

Dry weight (Kg): 915

Brushes: No

Type of alternator: Constant Speed

Voltage regulator: AVR