



# DINGOL DG444F Three-phase Alternator 400 kVA AVR



## Product description:

### **DINGOL DG444F THREE-PHASE 400KVA AVR**

DINGOL DG444F is a three-phase brushless alternator capable of delivering a maximum power of 400KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG444F 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 DG444F responds optimally even in the presence of non-linear loads. This result is obtained by winding the electrical cable of the stators with a 2/3 pitch, thus eliminating third order harmonics (3° - 9° - 15°) from the voltage curve. This also eliminates the excess of neutral current that sometimes appears with larger pitch windings, during parallel operation.

DINGOL DG444F are designed to guarantee IP22 protection class for industrial use suitable for protection from normal weather conditions.

DINGOL DG444F 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 DG444F 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 DG444F

Phase Type: Three Phase

Power Supply Voltage: 400 - 440 V

Frequency: 50 - 60 Hz

Maximum Power (50 Hz): 320KW

Maximum Power (50 Hz): 400KVA

Maximum Power (60 Hz): 364KW

Maximum Power (60 Hz): 455KVA

Revolutions Per Minute: 1500 rpm

Efficiency %: 93. 0

Brush Type: Brushless

Voltage Regulator: AVR

Protection Degree: IP22

Width: 1172 mm

Length: 776 mm

Height: 852 mm

Dry Weight: 1120 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.

## Product features:

Phase: Three phase

Maximum power three phase (KW): 320

Maximum power three phase (KVA): 400

Frequency (Hz): 50 / 60



Voltage (V): 400  
Engine rpm (rpm): 1500  
Efficiency (%): 93  
Protection degree: IP22  
Length (mm): 1172  
Width (mm): 776  
Height (mm): 852  
Dry weight (Kg): 1120  
Brushes: No  
Type of alternator: Constant Speed  
Voltage regulator: AVR

