



# DINGOL DG544F THREE-PHASE ALTERNATOR 670 KVA AVR

## Product description:

DINGOL DG544F THREE-PHASE 600KVA AVR

DINGOL DG544F is a three-phase brushless alternator capable of delivering a maximum power of 600KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG544F are subjected to a specific coating and/or impregnation process to safeguard the functionality of the generator and to protect the critical parts in the various conditions of use.

On the test bench, DINGOL rotors are balanced to the best of BS6861: part 1 box 2.5. To allow operation with the lowest possible vibration.

The THF (as defined by the directive BS4999 part 40) is better than 2%, while the TIF : Telephone Influence Factor as defined by the directive NEMA MG1-32) is better than 50.

DINGOL DG544F are designed to guarantee a protection class of IP22 for industrial use suitable for protection against normal atmospheric conditions.

DINGOL DG544F 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 DG544F 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 to and thus avoid voltage and current surges.

Automatic electronic voltage regulators are installed on both industrial and marine alternators. They allow to transfer in a constant way the necessary energy from the excitation stator to the main exciter independently from the power developed moment by moment by the generator. 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 DG544F

Phase Type: Three Phase  
Power Supply Voltage: 400 - 440 V  
Frequency: 50 - 60 Hz  
Maximum Power (50 Hz): 480KW  
Maximum Power (50 Hz): 600KVA  
Maximum Power (60 Hz): 570KW  
Maximum Power (60 Hz): 713KVA  
Revolutions Per Minute: 1500 rpm  
Efficiency %: 94. 7  
Brush type: Brushless  
Voltage regulator: AVR  
Protection class: IP22  
Width: 1412 mm  
Length: 862 mm  
Height: 971 mm  
Dry weight: 1663 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): 536  
Maximum power three phase (KVA): 670  
Frequency (Hz): 50 / 60  
Voltage (V): 400  
Engine rpm (rpm): 1500



Efficiency (%): 94.7

Protection degree: IP22

Length (mm): 1412

Width (mm): 862

Height (mm): 971

Dry weight (Kg): 1663

Brushes: No

Type of alternator: Constant Speed

Voltage regulator: AVR