



# DINGOL DG444C Three-phase Alternator 250 kVA AVR

## Product description:

DINGOL DG444C THREE-PHASE 250KVA AVR

DINGOL DG444C is a three-phase brushless alternator capable of delivering a maximum power of 250KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG444C alternator are subjected to a specific coating and/or impregnation procedure in order to safeguard the functionality of the generator and to protect the critical parts in the various conditions of use.

DINGOL DG444C responds optimally even in the presence of non-linear loads. This result is obtained by winding the electric 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 DG444C are designed to ensure IP22 protection class for industrial applications suitable to guarantee 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 DG444C 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 DG444C 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 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.

The AVR via sensing regulates the voltage of the alternator output current with a control margin of 0.5% over or under, from no-load to full load, including cold to operating temperature variations, up to cos-phy 0.8 and up to a 4% r.p.m. variation of the motor.

#### TECHNICAL FEATURES DINGOL DG444C

Phase Type: Three Phase  
Power Supply Voltage: 400 - 440 V  
Frequency: 50 - 60 Hz  
Maximum Power (50 Hz): 200KW  
Maximum Power (50 Hz): 250KVA  
Maximum Power (60 Hz): 240KW  
Maximum Power (60 Hz): 300KVA  
Revolutions Per Minute: 1500 rpm  
Efficiency %: 92. 4  
Brush Type: Brushless  
Voltage Regulator: AVR  
Protection Class: IP22  
Width: 1172 mm  
Length: 776 mm  
Height: 852 mm  
Dry Weight: 850 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): 200

Maximum power three phase (KVA): 250

Frequency (Hz): 50 / 60

Voltage (V): 400

Engine rpm (rpm): 1500

Efficiency (%): 92.4

Protection degree: IP22

Length (mm): 1172

Width (mm): 776

Height (mm): 852

Dry weight (Kg): 850

Brushes: No

Type of alternator: Constant Speed

Voltage regulator: AVR

