



## DINGOL DG544D THREE-PHASE ALTERNATOR 563 KVA AVR

Reference: DG544D SAE00 disk joint 14

### DINGOL DG544D Three-phase alternator 563 kVA AVR

DINGOL DG544D is a three-phase brushless alternator capable of delivering a maximum power of 563KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG544D are subjected to a specific coating and/or impregnation process aimed at safeguarding the functionality of the generator and protecting the critical peers 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 as little vibration as possible. Bi-bearing alternators are balanced using a half key.

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

DINGOL DG544D respond optimally even in the presence of non-linear loads. This result is obtained by winding the stator electric cable with a 2/3 pitch, 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 DG544D are designed to ensure IP22 protection class for industrial use suitable for protection from normal weather conditions.

DINGOL DG544D 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 DG544D 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 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 variations from cold to operating temperature, up to cos-phy 0.8 and up to a variation r.p.m. of 4%.

#### TECHNICAL FEATURES DINGOL DG544D

Phase type: Three phase  
Power supply voltage: 400 - 440 V  
Frequency: 50-60Hz  
Maximum power: 450KW  
Maximum power: 563KVA  
RPM: 1500 rpm  
Efficiency %: 94.4  
Brushes Type: Brushless  
Voltage regulator: AVR  
Degree of protection: IP22  
Width: 1337 mm  
Length: 862 mm  
Height: 971 mm  
Dry weight: 1358 Kg

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

Images and technical data are not binding.

### Technical Sheet

Phase	Three phase
Maximum power three phase (KW)	450
Maximum power three phase (KVA)	563
Frequency (Hz)	50 / 60
Voltage (V)	400
Engine rpm (rpm)	1500
Efficiency (%)	94.4
Protection degree	IP22
Length (mm)	1337
Width (mm)	862
Height (mm)	971
Dry weight (Kg)	1358
Brushes	No
Type of alternator	Constant Speed
Voltage regulator	AVR