



## DINGOL DG544E THREE-PHASE ALTERNATOR 625 KVA AVR

Reference: DG544E SAE00 disk joint 14

### DINGOL DG544E THREE PHASE 625KVA AVR

DINGOL DG544E is a three-phase brushless alternator capable of delivering a maximum power of 625KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG544E 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 DG544E are designed to guarantee a protection class IP22 for industrial use suitable to guarantee protection from normal atmospheric conditions.

DINGOL DG544E 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 DG544E 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.

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 the engine of 4%.

#### TECHNICAL CHARACTERISTICS DINGOL DG544E

Phase type: Three phase  
Power supply voltage: 400 - 440 V  
Frequency: 50-60Hz  
Maximum power: 500KW  
Maximum power: 625KVA  
RPM: 1500 rpm  
Efficiency %: 95.0  
Brushes Type: Brushless  
Voltage regulator: AVR  
Degree of protection: IP22  
Width: 1337 mm  
Length: 862 mm  
Height: 971 mm  
Dry weight: 1498 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.

### Technical Sheet

Phase	Three phase
Maximum power three phase (KW)	500
Maximum power three phase (KVA)	625
Frequency (Hz)	50 / 60
Voltage (V)	400
Engine rpm (rpm)	1500
Efficiency (%)	95.0
Protection degree	IP22
Length (mm)	1337
Width (mm)	862
Height (mm)	971
Dry weight (Kg)	1498
Brushes	No
Type of alternator	Constant Speed
Voltage regulator	AVR