



## DINGOL DG184E Threephase Alternator 22.5 KVA AVR

Reference: DG184E

### DINGOL DG184E Threephase Alternator 22,5 KVA AVR

DINGOL DG184E is a three-phase brushless alternator capable of delivering a maximum power of 22,5KVA complete with AVR.

DINGOL DG184E is equipped with a class H insulation system. All components are subjected to specific coating and / or impregnation process to safeguard the functionality of the generator and to protect the critical peers in various conditions of use.

The resins and paints used are suitable to make resistant the surface of the static windings, and to give mechanical strength to all rotating components.

DINGOL DG184E respond 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.

DINGOL DG184E is equipped with a fully connected auxiliary buffer winding contributes to drastically reduce oscillations in parallel, this helps to minimize waveform distortions.

DINGOL DG184E adopt the IP22 (NEMA1) standard for industrial use suitable to ensure protection from normal weather conditions. For extreme weather conditions, the IP23 standard is also available, which provides protection against water up to  $60^\circ$  from vertical.

The absence of a brush mechanism and the high efficiency of the voltage regulator ensure a low level of interference with radio waves.

DINGOL DG184E 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.

### AVR VOLTAGE REGULATOR

The AVR voltage regulator allows to transfer in a constant way the necessary energy from the excitation stator to the main exciter independently from the power developed instant by instant 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 automatic voltage regulator, by means of sensing, regulates 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 DG184E

Phase type: Three-phase  
Voltage (V): 400  
Frequency (Hz): 50  
Revolutions per minute (rpm): 1500  
Single-phase power (kVA): ----  
Three-phase power (kVA): 22.5  
Alternator type: Constant speed  
Voltage regulator: AVR  
Brushless  
Degree of protection: IP22 (on request IP 23)  
Weight (Kg): 141

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
Frequency (Hz)	50
Voltage (V)	400
Engine rpm (rpm)	1500
Three-phase power (KW)	18
Three-phase power (KVA)	22.5
Efficiency (%)	84.9
Protection degree	IP22
Length (mm)	520
Width (mm)	500
Height (mm)	670
Dry weight (Kg)	141
Brushes	No
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR