



## DINGOL DG164C Three Phase Alternator 13.5 kVA AVR

Reference: DG164C

### DINGOL DG164C THREEPHASE 13.5KVA AVR

DINGOL DG164C is a threephase brushless alternator capable of delivering a maximum power of 13,5KVA complete with AVR voltage regulator.

DINGOL DG164C alternators respond very well even in the presence of non-linear loads. This result is obtained by winding the electric cable of the stators with a 2/3 pitch, thus eliminating third order harmonics ( $3^\circ - 9^\circ - 15^\circ$ ). In fact, this also eliminates the excess neutral current that sometimes appears with larger pitch windings during parallel operation. A fully connected auxiliary buffer winding contributes to drastically reducing parallel oscillations.

DINGOL DG164C adopt the IP22 (NEMA1) standard for industrial applications suitable to guarantee 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.

DINGOL DG164C have twelve terminal blocks and are delivered pre-configured in threephase 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.

### VOLTAGE REGULATOR AVR

Electronic AVRs are installed indifferently on alternators intended for industrial use and those intended for marine use. 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. It is possible to expand the functions of the AVR by using compatible control devices manufactured by Beltrame c.s.e.

### TECHNICAL CHARACTERISTICS DINGOL DG164C

Phase Type: Threephase  
Voltage (V): 400  
Frequency (Hz): 50  
Revolutions per minute (rpm): 1500  
Singlephase power (kVA): ----  
Threephase power (kVA): 13.5  
Type of alternator: constant speed  
Voltage regulator: AVR  
Brushless

Protection class: IP22 (on request IP 23)  
Weight (Kg): 110

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)	10.8
Three-phase power (KVA)	13.5
Efficiency (%)	80.7
Protection degree	IP22
Length (mm)	500
Width (mm)	480
Height (mm)	670
Dry weight (Kg)	110
Brushes	No
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR