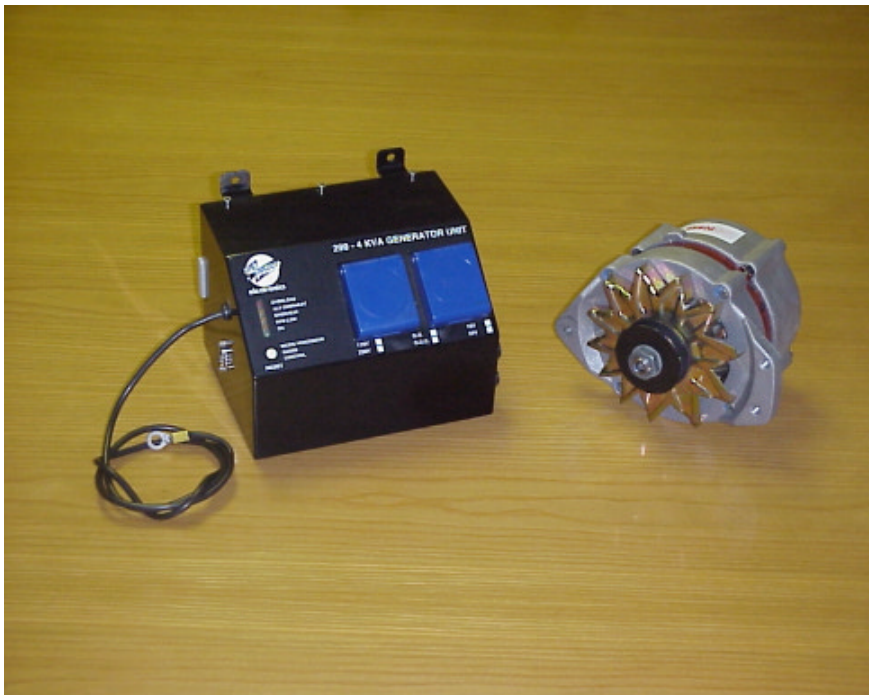




UNIPOWER – 299 GO

PRODUCT SPECIFICATION

UNIPOWER - 299 GO, SINGLE PHASE 4KVA GENERATOR ONLY



Control module : CM

Microprocessor Controlled

Operating voltage:	12V or 24V Specify
Size :	240x200x155 mm
Weight :	4 Kg
Loom :	1.5 Meter , Newpreen cabl
Temp range :	0 to 40 C
Output Voltage :	230V +- 10%
Frequency :	50 Hz +- 1%,
Power factor :	0.6 Lagging to 1
Duty Cycle :	100 % for up to 5 Minutes,
	degrade as per temperature variance
Control :	Fixed DC link with PWM
	(Pulse width modulation)
Waveform :	Modified Sine (QS)

Alternator:

Type :	Bosch 90A
Size :	165x205x150 mm
Weight :	5.5 Kg
Alternator speed :	2000 to 11000 RPM
Suggested :	6000 to 8000 RPM
Rating :	Determined by stator winding configuration and requirement (see Graphs)

MODEL	SINGLE PHASE OUTPUT VOLTAGE (50 Hz)	BATTERY CHARGING
299 GO-12V	230	N.A.
299 GO-24V	230	N.A.
299 GOC- 12V	230	70A @ 14.1V
299 GOC--24V	230	50A @ 28.2 V

TEST CONDITIONS :

- Ambient temperature 25 C, Alternator and CM temperature 25 C
- Alternator driven with 13mm V belt, Alternator RPM controlled with a 22kW variable speed induction motor.
- Battery voltage kept constant for tests 12V = 14.1V and 24V = 28.2V
- Maximum alternator speed = 11000 RPM
- CM – mounted upright for ventilation.
- Loom length = 1.5M.
- Test done with Pure resistive load
- High voltage tests done on a 230V output voltage (Allow drop down to 205V AC)
- GOC high voltage test done with battery current drawing 50A on 12V and 30A on 24V

It remains the right of the manufacturer to modify specifications without prior notice. Please visit website at WWW.Unipower.co.za/specsheets or E-mail to powerele@iafrica.com for an updated specs sheet.

Compiled : Gawie v d Merwe

Date : November 99

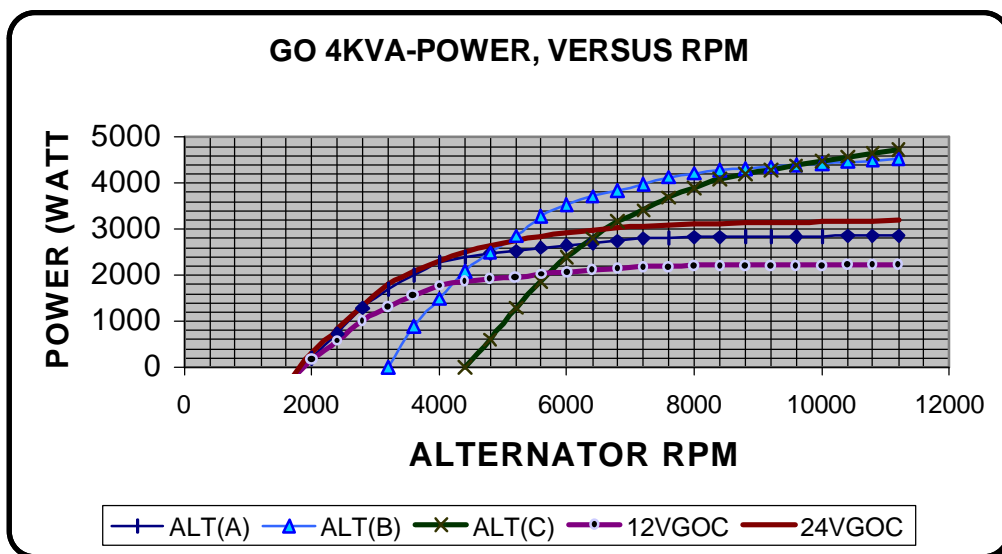


UNIPOWER – 299 GO

PRODUCT SPECIFICATION

ALTERNATOR WINDING TYPES :

Type A :	Output starting at 2000RPM- (less top end) Standard
Type B :	Output starting at 3000RPM- (More power top end)
Type C :	Output starting at 4000RPM- (More power top end), suggested for continuous, high power output
Type 4 :	GOC wound to charge host battery and produce 230V AC simultaneously



<p>Control Technique : DC LINK voltage regulated at 265V DC fixed voltage, followed by AC inversion, which is crystal controlled</p>	<p>Plug Ratings : 2 x16 Amp Shukkor for 230V AC, Inline fuse protected for separate overloading.</p>	<p>Display – description :</p> <ol style="list-style-type: none"> Green Led - Unit on 1st Amber Flashing – Low RPM 2nd Amber On and Red overload - CM overheated 3rd Amber on and overheat - Alternator overheated Red overload - Output overloaded Red overload flashing - Output shorted
	<p>Earth Leakage : No- earth leakage protection</p>	
<p>Caution : 230V AC is referenced to earth, DO NOT EARTH NEUTRAL</p>	<p>Displays : Green Led - ON Amber Led - Low RPM Amber Led - CM Overheat Amber Led - Alternator Overheat Red Led - Low RPM</p>	
<p>Fan belt requirements : For high load applications Alternator must be installed with 13mm V fan belt. OR 6 GROOVE PULLEY with matching fan belt</p>	<p>Temperature Power de-rating : CM & Alternator : Approx. 50W/C</p>	
<p>Overload ratings : Typical 30% for up to 15 seconds. Peak 20-23A on Plug output.</p>	<p>Operating ambient Temp : CM : 0 to 40 C Alternator : - 30 to 90 C</p>	

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