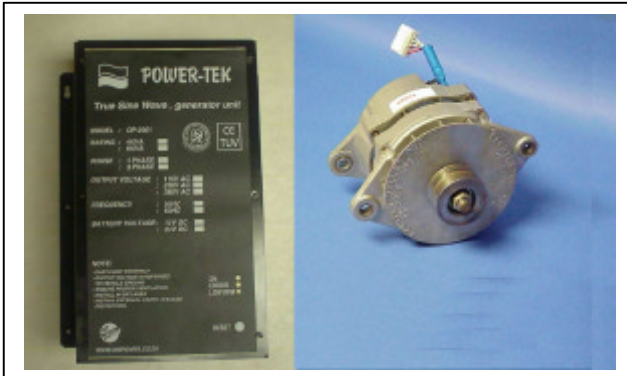


POWER-TEK

Product Specification

**Model : 6kW -Power_Tek
Sine wave, Generator Only
unit**



Control module :

Operating voltage	:	12V or 24V (Check module)
Size	:	245x150x350 mm
Weight	:	11 Kg
Loom	:	5 Meter , Newpreen cable
Temp range	:	0 – 40 C
Output Voltage	:	See Table
Power factor	:	0.6 Lagging to 1
Duty Cycle	:	100 %
Control	:	Microprocessor PWM
Waveform	:	Pure Sine wave
Distortion	:	< 4%

Alternator:

Type	:	Neville Reece
Size	:	245x240x175 mm
Weight	:	9 Kg
Alternator speed	:	2000 to 10000 RPM
Duty Cycle	:	100 %
Continuous rating:	:	see Graphs

MODEL	VOLTAGE (V)	CURRENT A (Continuous)	FREQUENCY (Hz)	BATTERY CHARGING
PT2001-GO-12V -230-4KW	230	30	50	N.A.
6pt2001-GO-24V- 230-6kW	230	30	50	N.A.
6pt2001-GO-12V-115-6kW	115	58	60	N.A.
6pt2001-GO-24V-115-6kW	115	58	60	N.A.

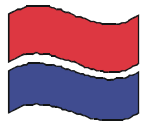
TEST CONDITIONS :

- Ambient temperature 25 C
- Alternator and CM temperature 25 C
- Alternator driven with twin V belt 13mm Belts
- 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 = 10000 RPM
- CM – mounted upright for ventilation.
- Loom length = 5M.
- Test done with load of unity power factor
- High voltage test done on 220v output

NOTE : OUTPUT IS REFERENCED TO GROUND

Output wave form :	Pure Sinewave
Distortion	< 4%
EMI	CE / TUV Complaint

It remains the right of the manufacturer to modify specifications without prior notice. Please visit website at WWW.Unipower.co.za or email to powerle@iafrica.com for an updated spec sheet

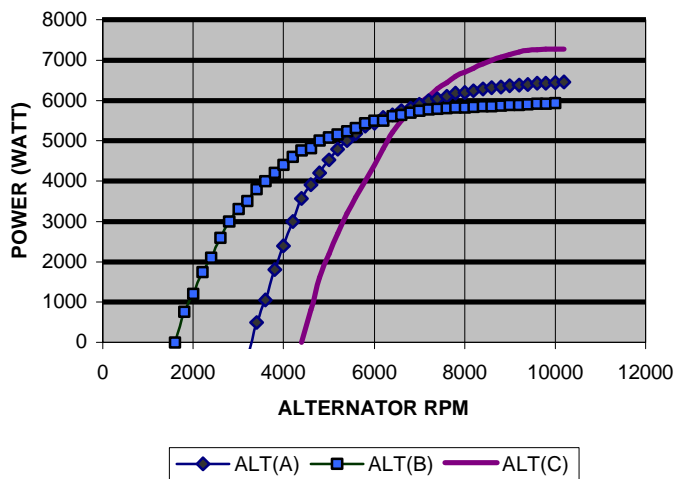


POWER-TEK

Product Specification

**Model : 6kW -Power_Tek
Sine wave, Generator Only
unit**

GO 6KVA -POWER VERSUS RPM



ALTERNATOR WINDING TYPES :

- Type A** : Output starting at 3000 RPM – high top Power
- Type B** : Output starting at 2000 RPM – low top Power
- Type C** : Output starting at 4000 RPM – high top Power

Control Technique:

Output Voltage is fixed frequency Sine wave signal. Low RPM with load will shut unit down into overload.

Fan belt requirements:

For continuous high load applications Alternator must be installed with double 13mm V fan belt. **OR** 8 GROOVE PULLEY AND FANBELT

Overload ratings:

Typical 50% for up to 30 seconds

Plug Ratings:

No Plug output supplies
Only wire leads of length 1M x 4mm diameter, External connection assembly required- Optional DB box is available

Earth Leakage:

No Earth leakage unit supplied, External mounting required

Displays:

Green Led - ON
Red Led - Overload
Amber - Control

Temperature Power de-rating :

CM & Alternator:
Approx. 40W/K

Display – description:

- a) Green Led, Unit
- b) RED, CM overloaded
- c) RED Flashing, CM overheat
- d) RED and Amber flashing, Alternator overheat
- e) Amber on, Alternator not Turning
- f) Amber Flashing, Unit in V/Hz mode, thus load is more than alternator can supply at RPM

Protection:

- Overload
 - CM overheat
 - Alternator overheat
 - In Line fuse to Alternator for alternator overheat
- Fan for CM internal cooling

Operating ambient Temp:

CM :0 - 40 C
Alternator: - 30 – 90 C

Optional extra Distribution box is available for distribution with GO range

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