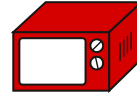
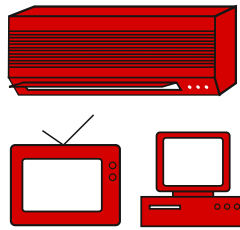


## SPECIFICATION :



### UNIPOWER 185 ELECTRICAL SPECIFICATIONS

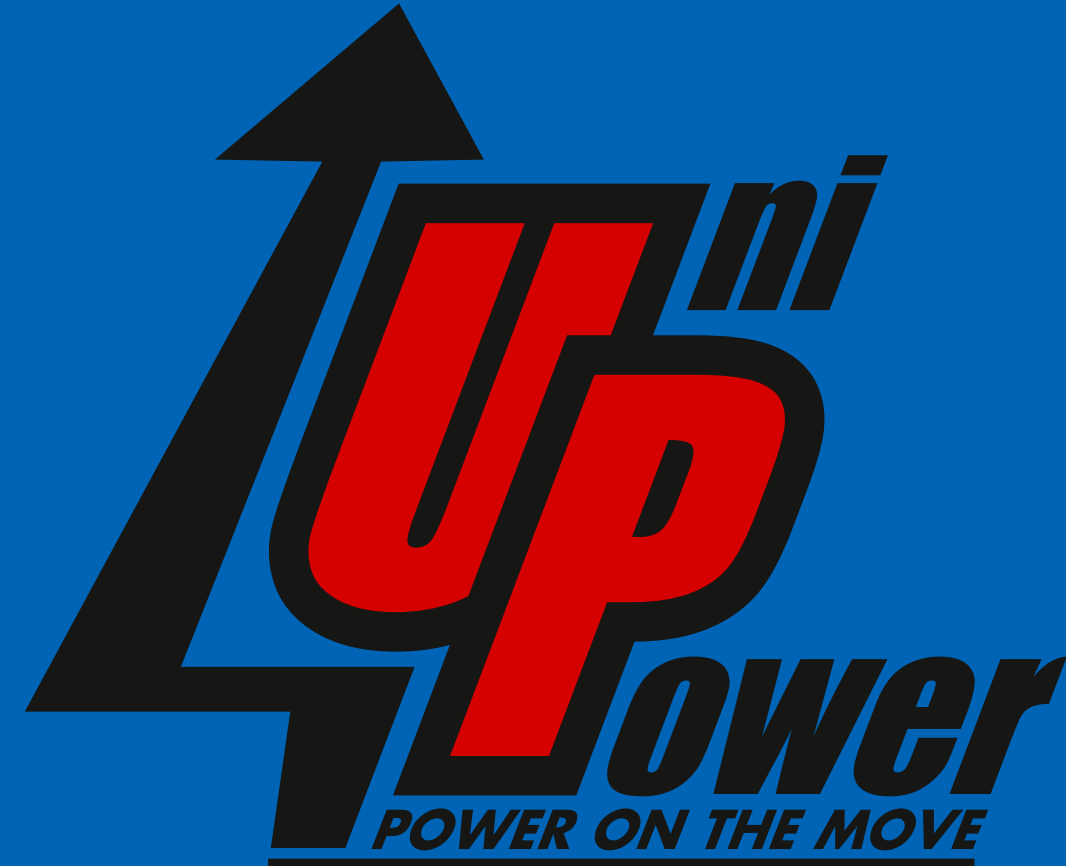
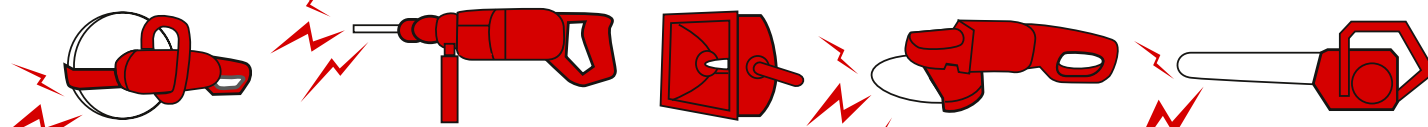
Parameter	Welder-Generator-Battery Charger	
	Defence Spec	Standard
Duty Cycle	100%	
Max. Continuous DC Welding Output	200A @ 20V DC, OCV limit to 48V DC	165A @ 20V DC
Max. Continuous 24V DC Battery Charging Output	140A @ 27.4V DC, fully automatic regulation	120A @ 27.4V DC, fully automatic regulation
Max. Continuous 12V DC Battery Charging Output	275A @ 14.3V DC, fully automatic regulation	230A @ 14.3V DC, fully automatic regulation
Optional fully regulated multiple charge selection	6-48VDC automatic voltage regulation according to preset. Manual Charge current limiting, operator selectable	
Battery charging characteristics	High frequency PWM regulated DC for superior charging performance and maximum battery life	
Max. Continuous Auxiliary Power Output @ 240/110V @ 50/60Hz	2.5kVA (2500W)	2.5kVA (2500W)
Power Quality	Unity power factor. Sinewave technology with low T.H.D. characteristics	
Earth Leakage Protection	Complies with AS2790 and is not electrically bound to earth. No ELCB or RCD require to be fitted	
Control Supply Input or System Battery Voltage	10-38V DC	



### UNIPOWER 185 MECHANICAL SPECIFICATIONS

Size	CONTROL HOUSING: 350mm(L) x 250mm(W) x 150mm (Deep) ALTERNATOR: 190mm(L) x 200mm(Cylindrical)
Weight	CONTROL HOUSING: 5.6kg ALTERNATOR: 5.4kg
Weight Packed	STANDARD KIT: 20.0kg
Construction	CONTROL HOUSING: Powder coated - primed zinc annealed steel enclosure sealed to IP65. Optional 316 stainless enclosure, sealed to IP68 also available ALTERNATOR: High pressure die cast aluminium housing sandwiches a class H (220 C) special stator. M8 brass terminals for high current DC. Anti-vibration fastenings standard. Split half pressed steel pulley to accommodate Z-B section V-belts. Optional multi-ribbed and cast steel split pulleys available.
Standard lead length (Alternator-Control Module)	3.5m long control loom complete with cable and bulkhead connectors (IP65 single lever action) and 2 lengths dual sheath 25mm.sq 0.6/1.0kV multi-stranded DC power cable
Alternator Operating Speeds	2,000-12,000rpm
Operating Temperature & Humidity Range	-20 C to 40 C 0-95% RH non-condensing
Optional auto load and engine speed control	Units can be configured to interface with the vehicle's engine management system (EFI control) in the exclusive vehicle stationary position (handbrake interlocked) whilst the unit is in operation. On sensing a load demand the unit will automatically signal the control to raise the engine rpm to a preset limit. Removal of the load signals the EFI control to return the engine rpm to idle. (Subject to additional hardware based on vehicle specific requirements)
In vehicle high capacity battery charging (12V or 24V)	Requires the installation of a high current solenoid between the Unipower alternator and the target battery. The following continuously rated solenoids manufactured by Echlin are strongly recommended for 12V systems fit Echlin ST85 and for 24V systems fit Echlin ST88
Available Engine Configurations	Fitting can be accomplished onto any prime mover or power take off
Warranty	Comprehensive 12 months on a back to base basis. Parts and labour. Fitting and commissioning of the unit to be performed by a factory accredited installer

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**The complete welding and mobile power supply in a kit**

# UNIPOWER 185

The Complete Mobile Power Supply-In A Kit

Heavy Duty Industrial Quality All Weather IP65 Powder Coated Zinc Annealed Steel Enclosure 316 Stainless Steel enclosure available as an option

Super Compact Heavy Duty Unipower Alternator Automatic configuration for easy installation

Can Be Setup To Change Existing Vehicle Battery 12V Or 24V Fully automatic voltage selection and optimised pulse charging for automatic battery conditioning

High Current Heavy Duty Battery Charger Regulated outputs 6-48 Vdc from the same unit

100% DUTY CYCLE WELDER

Intelligent Microprocessor Controlled Technology for superior performance

GENERATOR 2500 WATTS Continuous AC Power

Metal Arc Welding MMAW

TIG 165A MIG

Submerged ARC SAW

ARC Air Cutting AAC/AAG

Flux Cored ARC FCAW

LIGHTING Incandescent, Fluorescent, Metal Halide, Halogen, Mercury Vapour, High Pressure Sodium, And Much More

POWER TOOLS Electronic Drills, Grinders, Sanders, Routers And Much More

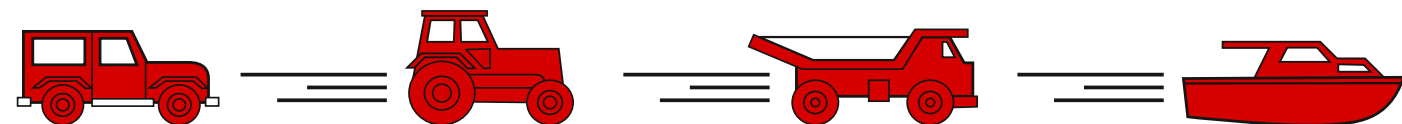
ELECTRONIC APPLIANCES TVs, VCRs, Computers, Microwaves And Much More

ELECTRICAL MACHINES Dryers, Heaters, Air Compressors, Refrigerators, Electrical Boilers, Air Conditioners, And Much More

The **Unipower 185** is a special kit featuring a multi-purpose alternator and a power control unit. Fitted to any vehicle, boat, earth-moving equipment, stationary motor or 4W Drive it provides a safe, portable power source for when you want it and where you want it.

## KIT COMPRISES :

- Specially wound, multi-purpose alternator (can be used either in conjunction with, or as a replacement for existing alternator).
- Control module with remote hand throttle and cable. (Special alternator fitting kit available on application).
- Welding leads include 300A Electrode Holder & Earth Clamp. 200A Battery Booster clip supplied.
- Full installation and operating instructions for easy fit. Control units will automatically configure for 12V or 24V vehicle systems.



**POWER ON THE MOVE**

## WHAT CAN IT DO?

### • WELDING

Weld from your vehicle with safe, powerful DC welding current. Welds any electrode up to 4mm (6 gauge) including aluminium and stainless steel. Unipower is completely safe for the operator and vehicle's electrical circuit. Provides a high quality superimposed high frequency dc output to enable it to TIG, MIG, MMAW, FCAW, SAW and air arc gouge (compressed air required).

### • POWER TOOLS

Unipower produces a constant 240V or 110V power supply for all electric hand tools with an AC motor e.g. switchjack hammers, drills, chain saws, etc. Powers commercial grinders up to 235mm (9.5in) or 2,500 watt rating.

### • LIGHTING

Unipower provides constant 240V or 110V power for all types of lighting. Unipower is the portable generator for lighting wherever you go.

### • BATTERY CHARGER

Unipower provides fully regulated battery charging for 12V, 24V Batteries of 200 Amps & 140 Amps respectively.

### • DRIVING

Unipower makes no difference to the way a vehicle is driven, and operates as a normal heavy duty alternator when driving with full regulation.

## IMPORTANT

- 1) Uni-Power strongly recommend installation is conducted by a qualified or competent installer. If in doubt consult your Uni-Power dealer for approved installers.
- 2) Cannot damage your power tools through oversupply. Safe to use in vehicles with electronic equipment.

## FEATURES :

- Microprocessor controlled solid state circuitry.
- 2500W of continuous AC power at 240V (110V).
- Welding capacity up to 165 Amps DC. 100% duty cycle.
- Fully isolated 240V (110V) AC supply. Sine wave technology for low harmonic outputs.
- Standard kits with universal alternator configuration.
- Variable preset charging voltages to charge battery systems outside of the normal boost and float charge regimes.
- Designed to maximize engine cooling at low R.P.M. whilst the vehicle is stationary.
- Safe to use in vehicles with electronic instrumentation or control.
- Intelligent Power Manager monitors and protects control and power circuits from overloading.

