

Dynawatt AC Power System

230V/110VAC ENGINE DRIVEN INVERTER SYSTEM



CE and FI approved for vehicle use

The Dynawatt is an innovative and widely used power system for producing precise AC power directly from your vehicle engine whilst on the move.

The system generates a powerful 5kW quality "mains" AC sinewave permitting operation of the most sensitive on-board electrical equipment.

The system is light and compact, independent of the vehicle system and requires practically no maintenance.

This rugged field proven system was developed by our partner company Dynawatt AG in Switzerland who are acknowledged specialists in vehicle AC power generation.

KEY FEATURES

- High power
- Frequency independent of engine speed
- Compact in size
- Light in weight
- Maintenance free
- High quality ac
- High reliability
- Safe galvanic separation
- Easy to install and use
- Silent operation

Creating high output power on specialist vehicles can be problematic. The current "standard" OE alternator is limited to around 2.5kW.

Our Dynawatt AC power system offers up to 5kVA using a compact engine driven generator package, sized to fit the existing alternator or air-con position. It is independent of the standard vehicle system and can be used on either 12V or 24V vehicles. Alternatively it can replace the original alternator providing both AC power and DC primary vehicle supply with an advanced charging regime, when used with a suitable Antares universal power charger.

The increased output is achieved by generating at higher voltages. The "raw" high variable frequency AC power is then converted to either 230VAC or 110VAC at 50Hz or 60Hz in an external control unit. This method means less cooling and more power from the same size alternator.

The control unit is located in a convenient accessible place elsewhere on the vehicle (up to 15metres without power loss).

Installation requires mounting the alternator to the engine or PTO with bespoke brackets and belt drive via a pulley (pulleys and



EMERGENCY



DEFENCE



TECHNICAL



PASSENGER



SERVICE



HAULAGE



FM 37786
ISO 9001:2008

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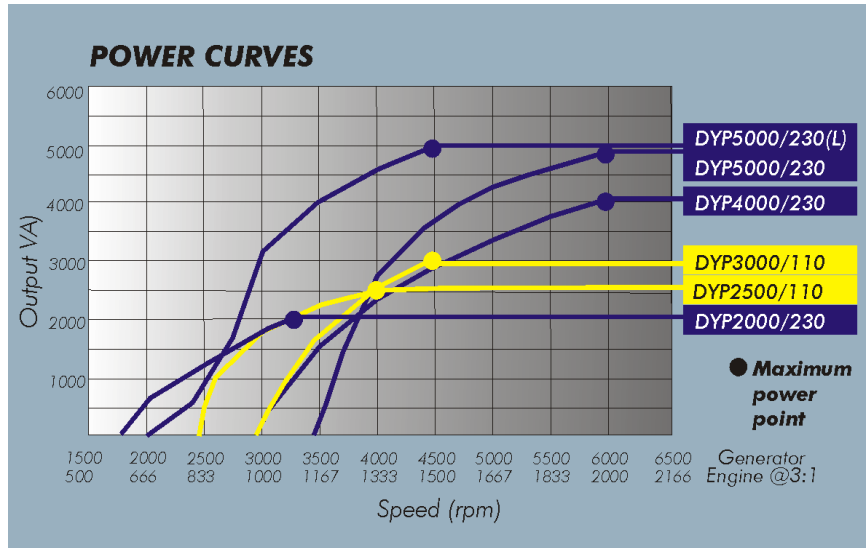
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brackets are available for a wide range of popular commercial vehicles).

All installation is through our approved installer network.

The Dynawatt system can be offered with 60Hz if required. There is also a high peak version of the DYNAWATT 4000 suitable for starting heavy duty compressors.

Please call our engineering team to discuss your application in more detail.



SPECIFICATIONS						
System name/power/voltage	DYNAWATT 2000/230	DYNAWATT 4000/230	DYNAWATT 2500/110	DYNAWATT 5000/230	DYNAWATT 3000/110	DYNAWATT 5000/230/L
Nominal Voltage	230VAC	230VAC	110VAC	230VAC	110VAC	230VAC
Part Number Control Unit	DYP22305	DYP32309	DYP31205	DYP52305	DYP51205	DYP52305
Part Number Generator	DYP20019E	DYP30016A	DYP30016A	DYP30026C	DYP30026C	TBC
Part Number Remote	DYP30115	DYP30115	DYP30115	DYP30115	DYP30115	DYP30115
Output (Continuous)	2100VA	4000VA	2500VA	5000VA	3000VA	5000VA
Output Current (Continuous)	9A	18A	21A	22A	25A	22A
Full power rpm (generator)	@4200rpm	@6000rpm	@6000rpm	@6000rpm	@6000rpm	@4500rpm
Generator cable	6m cable	6m cable		10m cable		
Remote Control Panel	3m connection RJ45	7m connection RJ45		7m connection RJ45		
Alternator speed r.p.m	15,000 cont (18,000 max)	15,000 cont (18,000 max)		13,000 cont (15,000 max)		
Output waveform	Sine wave: 230V +/-5% or 120V +/-5%, single phase , 50Hz +/-0.5%					
Protection	Over voltage/ overload / Over temperature, short circuit					
Control Unit Dims	280 x 360 x 90(H)mm	280 x 390 x 110 (H) mm		280 x 420 x 80 (H) mm		
Control Unit Weight (Kg)	7.0kg	7.8kg		9.0kg		
Generator Dimensions	220 x 150mm diameter	220 x 150mm diameter		240 x 165mm diameter		
Generator Weight (Kg)	7.2kg	7.2kg		7.5kg		
Pulley/belt Details	2 x 9.5mm, dia 57mm	2 x 9.5mm, dia 57mm		3 x 9.5mm, dia 60mm		
Options	Dyna Softstart (DYP70049), Handheld remote control (P30013)					