



(GB)

# INSTRUCTION MANUAL




## WARNING:

Before using the device read all the instructions carefully.

## WARNING



- This converter operates when connected to any cigar-lighter socket: of a car, of a boat, of a Telwin Jump-Start or Speed Start with 12Vdc output voltage and it supplies an alternating voltage of 230Vac. It is suitable for powering electrical and electronic appliances such as power supplies for: mobile phones, computers, cameras, video cameras, lighting devices etc.
- Do not power at 6Vdc or at 24Vdc.
- Do not invert the positive and negative cables of the converter input.
- It is forbidden and dangerous to connect the AC output of the converter to an AC power supply input.
- It is absolutely forbidden and dangerous to connect the converter and supply electricity to a main supply system in a building.
- Using this converter without a proper earth connection could give rise to dangerous situations.
- In order to guarantee safety against indirect contact, insert a Residual Current Device downstream of the AC output and make sure that the negative terminal of the battery is connected to earth or to the vehicle chassis.
- For safe installation:  
Connect the AC earth clamp to the vehicle chassis.  
To insert the RCD in the AC outlet, connect one of the two AC output conductors (N) to the chassis earth point, this connection should be made in the AC output section between the converter and the RCD.  
Always consult the locale regulations in force.
- Do not use the converter for long periods with the vehicle engine switched off; it may discharge the battery completely.
- Switch off the appliances connected to the 230Vac socket of the converter before taking the plug out of the cigar-lighter socket.
- Replace the fuse only and exclusively with fuses of the same size. Using fuses taking more current may cause permanent damage to the converter and the cigar-lighter socket in the vehicle.
- Make sure that the contacts in the cigar-lighter socket of the vehicle are clean and dust-free; imperfect electrical connections may produce harmful, dangerous heat at the contact point.
- This converter supplies an alternating voltage of 230Vac; there is a danger of electric shock. Do not insert metal objects that conduct electricity into the outlet sockets.
-  Keep out of reach of children.
- Make sure that the converter ventilation slots are not obstructed during use; the surrounding temperature should be between 10°C and 40°C.
- Do not leave the converter in the sun when in operation.
- Protect it from water.
- It is not suitable for powering appliances designed to produce heat such as: hairdryers, coffee machines, irons, electric stoves, toasters etc.

- Do not use the converter near inflammable material or in places where inflammable gas or fumes have accumulated such as in vehicles near the battery seating.
- Do not use the converter in a dusty environment or in the presence of filings or shavings.
- Do not open the case of the converter for any reason whatsoever.

## SPECIFICATIONS

	300	500	1000
Power supply voltage:		12Vdc	
Output voltage:		230Vac	
Output frequency:		50Hz	
Output waveform:		modified sinewave	
Continuous power output:	300W	500W	1000W
Peak power output:	600W	1000W	2000W
Undervoltage safeguard:		10Vdc	
Overvoltage safeguard:		15Vdc	
Operating temperature:		10°C ÷ 40°C	
Dimensions (mm):	188x140x74	253x140x74	358x140x74

When the converter has triggered due to overload the output will automatically be switched off; to restore operation it is necessary to reduce the absorbed power.

## INSTALLATION and OPERATION

Insert the converter plug into the cigar-lighter socket of the vehicle, of the boat or of the Telwin Jump-Start or Speed Start, making sure that the voltage is 12Vdc; it is also possible to connect two cables with corresponding crocodile clips to be attached directly to the terminals of a 12Vdc battery as shown in **fig. A**. Make sure all the DC connections are locked tightly so as to guarantee a perfect electrical contact. Connect the apparatus to earth or to the chassis of the vehicle (**fig. A**). Turn the converter switch to the "ON" position. Insert the plug of the appliance to be powered into the output socket of the converter. The inside of the converter contains an overload relay that triggers when the maximum available power is exceeded. When the converter has triggered due to overload the output will automatically be switched off; to restore operation it is necessary to reduce the absorbed power.

The converter is fitted with a 15A safety fuse, which is situated in the cigar-lighter plug, and this could blow in the event of overload; to replace the fuse see the **fig. B**. There are also fuses situated in the back of the container, see **fig. C**. The converter absorbs a very low current; nevertheless, we advise disconnecting it from the cigar-lighter socket if the vehicle or Jump-Start remains unused for over 24 hours.

## Typical absorption of commonly used appliances that can be powered by the CONVERTER 300, 500, 1000.

Portable computers:	80 Watts
Sewing machines:	100 Watts
Halogen table lamps:	50, 100 Watts
Battery chargers for drills:	8 ÷ 35 Watts
Battery chargers for mobile phones:	15 ÷ 25 Watts
Battery chargers for digital cameras:	25 Watts
Polishing machines for vehicles:	80 Watts
Drills:	120 Watts
Hot glue guns:	20 Watts
13" Television sets (CRT):	80 Watts
Stereo HI-FI:	100, 300 Watts
VCR's:	40 Watts
Halogen wall lamps:	200, 300 Watts
50" Television sets (PLASMA):	500 Watts
50" Television sets (LCD):	300 Watts
Circular saws:	600 Watts
Hammer drills:	800 Watts
Polishing machines:	500 Watts

























































(CZ) ZÁRUKA

Výrobce ručí za správnou činnost strojí a zavazuje se provést bezplatnou výměnu dílů opotřebovaných z důvodu špatné kvality materiálu a následkem konstrukčních vad do 12 měsíců od data uvedení stroje do provozu...

(SK) ZÁRUKA

Výrobca ručí za správnu činnosť stroja a zaväzuje sa vykonať bezplatnú výmenu diel opotrebovaných z dôvodu zlej kvality materiálu a následkom konštrukčných vad do 12 mesiacov od dátumu uvedenia stroja do prevádzky...

(SI) GARANCIJA

Proizvajalec zagotavlja pravilno delovanje strojev in se zavezuje, da bo brezplačno zamenjal dele, ki se bodo obrabili zaradi slabe kakovosti materiala in zaradi napak pri proizvodnji v roku 12 mesecev od dne začeta delovanja stroja...

(HR/SCG) GARANCIJA

Proizvođač garantira ispravan rad strojeva i obavezuje se izvršiti besplatno zamjenu dijelova koji su oštećeni zbog loše kvalitete materijala i zbog tvorničkih grešaka...

(LT) GARANTIJA

Garantuojas garantuoja nepriekiaštinga irenginio veikima ir jispारेigeioa hemokamari pakeisti gaminio dalis, susidėvėjusias as susigaudinusias dėl prastos medžiagos kokybės ar dėl konstrukcijos defektų 12 mėnesių laikotarpį nuo irenginio paleidimo datos...

(EE) GARANTI

Tootjafirma vastutab masinate ha funktsioneerimise eest ja kohustub asendama tasuta osad, mis riknevad halva kvaliteediga materjali ja konstruktsioonidefektide tõttu 12 kuu jooksul alates masina käikupanemise sertifikaadi loomistatud kuupäevast...

(LV) GARANTĪJA

Ražotājs garantē mašīnu labu darbību un apņemas bez maksas nomainīt detaļas, kuras nodilītas materiāla sliktas kvalitātes dēļ vai ražošanas defektu dēļ 12 mēnešu laikā kopš sertifikāta norādītā mašīnas ekspluatācijas sākuma datuma...

(BG) ГАРАНЦИЯ

Фирмата производител гарантира за доброто функциониране на машините и се задължава да извърши безплатно подмяната на части, които са се повредили, заради некачествен материал или производствени дефекти до 12 месеца от датата на пускане в действие на машината...

Table with 3 columns: GB, SF, CZ; D, H, SK; F, R, SI; G, RO, HR/SCG; P, PL, LT; E, HU, EE; NL, RO, LV; DK, PL, BG. Each cell contains a certification name in the respective language.

MOD./MONT./MOD./ÜRLAP./MUEL / МОДЕЛ / ШТ./ Вр.
GB Date of buying - I Data di acquisto - F Date d'achat - D Kaufdatum
E Fecha de compra - P Data de compra - NL Datum van aankoop - DK Købsdato

Table with 3 columns: GB, RU, H; D, RO, PL; F, R, SI; P, HR/SCG, LT; E, HU, EE; NL, RO, LV; DK, PL, BG. Each cell contains a certification name in the respective language.

The product is in compliance with:
Il prodotto è conforme a:
Le produit est conforme aux:
Die maschine entspricht:
Het produkt overeenkomstig de:
El producto es conforme as:
O produto é conforme as:
Att produktet er i overensstemmelse med:
Att produktten är i överensstemmelse med:
Το προϊόν είναι κατασκευασμένο σύμφωνα με τη:
Заявляется, что изделие соответствует:
A termék megfelel a követelményeknek:
Produktul este conform cu:
Produkt spełnia wymagania następujących Dyrektyw:
Výrobek je v súlade so:
Výrobek je ve shodě se:



(GB) DIRECTIVES - (I) DIRETTIVE - (F) DIRECTIVES - (D) RICHTLIJNEN - (E) DIRECTIVAS - (P) DIRECTIVAS - (NL) RICHTLIJNEN - (DK) DIREKTIVER - (SF) DIREKTIVIT - (N) DIREKTIVET - (S) DIREKTIV - (GR) ΠΡΟΔΙΑΓΡΑΦΕΣ - (RU) ДИРЕКТИВЫ - (H) IRÁNYELVEK - (RO) DIRECTIVE - (LU) DĪREKTYVY - (CZ) SMĚRNICE - (SK) SMERNICE - (SI) DIREKTIVE - (HR/SCG) DIREKTIVE - (LT) DIREKTYVOS - (EE) DIREKTIIVID - (LV) DIREKTĪVAS - (BG) ДИРЕКТИВИ

LVD 2006/95/EC + Amdt. EMC 2004/108/EC + Amdt. RoHS 2011/65/EU + Amdt.