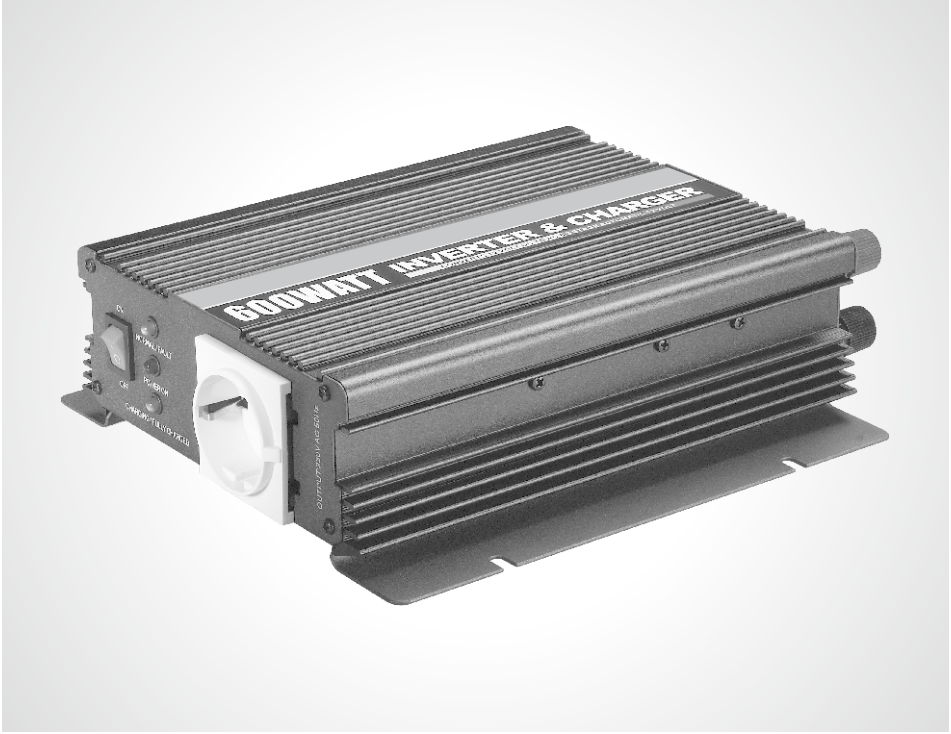
paco®

CONVERTS 12 VOLT DC TO AC

INVERTER & CHARGER

SUPERIOR 3 STAGE AUTOMATIC 12 VOLT CHARGING



INSTRUCTION MANUAL
Please read user manual before use.

CE CB

USEFUL APPLICATIONS
RUN NOTEBOOK COMPUTERS, RADIOS, TVS, VCRS, LAMPS, FANS, FAX, DRILL……ETC.

1. DESCRIPTION

FIG 1: P/No. PIC500-1205、PIC600-1205

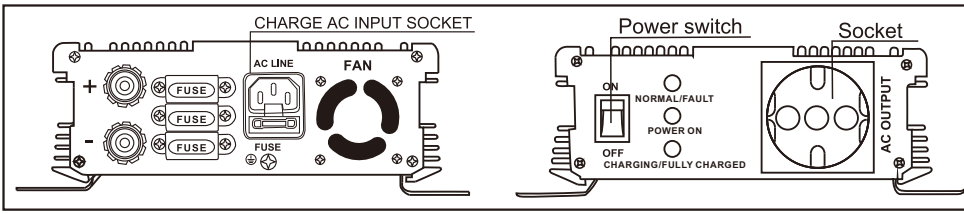


FIG 2: P/No. PIC800-1205

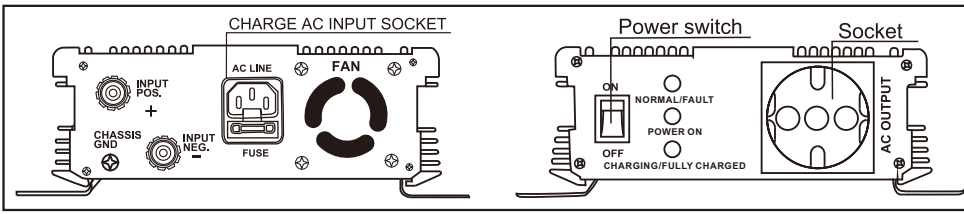


FIG 3: P/No. PIC1000-1210、PIC1200-1210、PIC1500-1210、PIC2000-1220

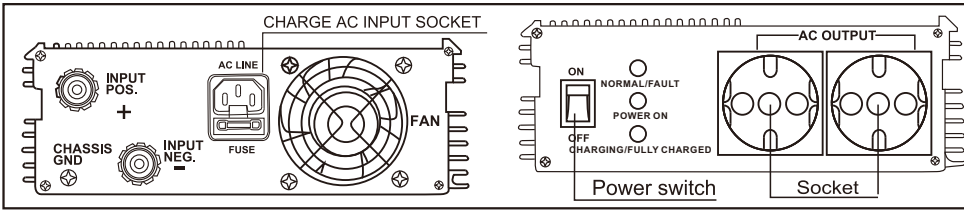


FIG 4: P/No. PIC3000-1220、PIC4000-1220、PIC5000-1220

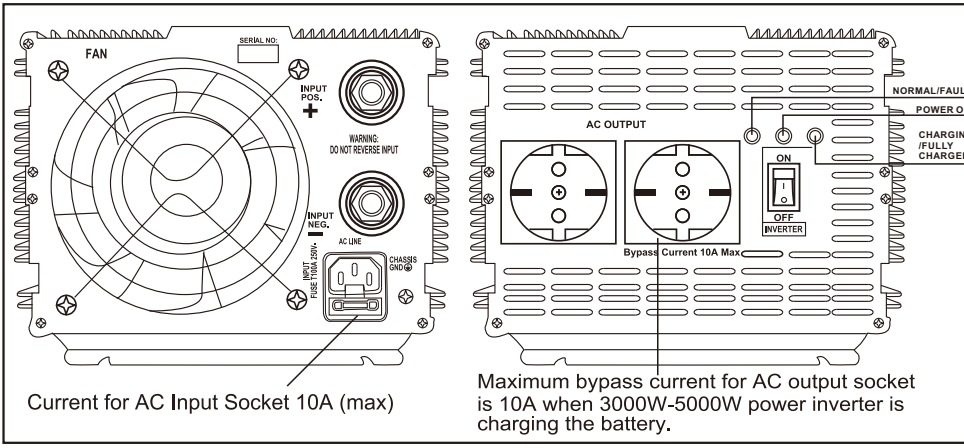
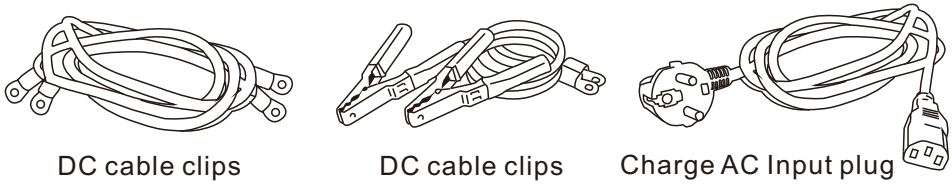


FIG 5:

2. ACCESSORY



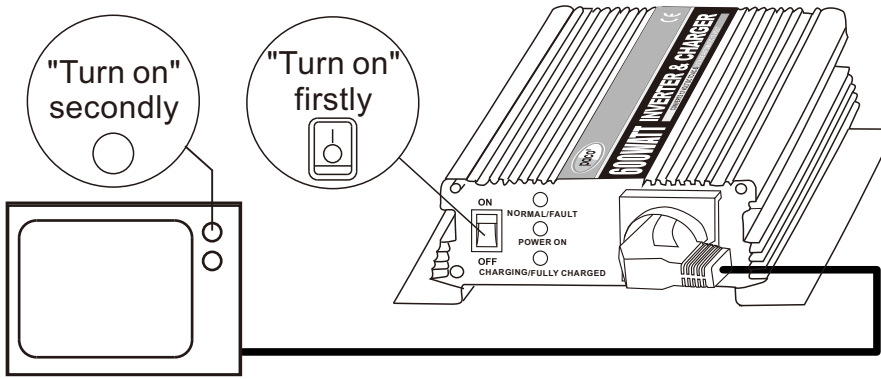
DC cable clips DC cable clips Charge AC Input plug

3. CONNECTION

- ◆Please verify if you have chosen the right operating voltage for both input and output.
- ◆Connect the red cable from the "+" terminal (red terminal) of the battery to the + binding post (red connection) of the inverter and the black cable from the "-" terminal (black terminal) of the battery to the "-" binding post (black connection) of the inverter.
- ◆Be sure to tighten the screws in order to avoid loose connection.

4. OPERATION

- ◆When connected to an appliance, remember to turn on the inverter before turning on the appliance. If the buzzer sounds during operation, this indicates that the battery voltage is very low and the inverter will be disconnected in 5 minutes.



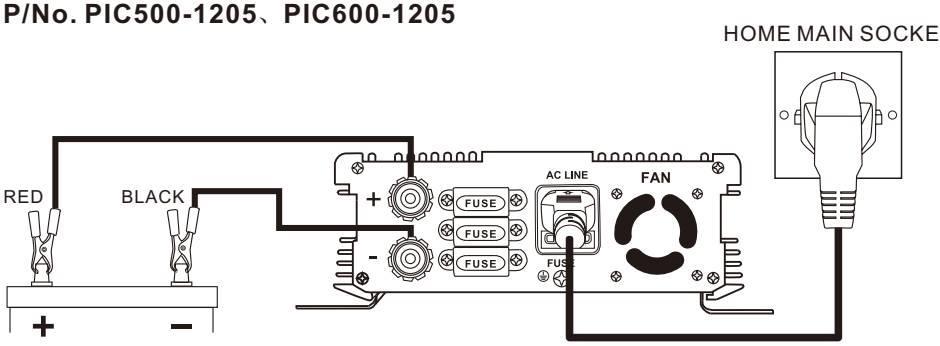
◆When connecting electrical appliance with CRT, such as TV set, computer and so on to the Power Inverter which below 500W, the electrical appliance may need to be started several times before it can work smoothly. Don't start the power inverter when it is loaded, otherwise the power inverter will be damaged.

◆When connecting the electrical appliance with motor or compressor, such as drill, air-conditioner and so on to the power inverter, please make sure that the power rating of the power inverter is at least 3 times of the power rating of the electrical appliance, so that it can work smoothly, because the starting up power is much beyond of the power rating of the electrical appliance.

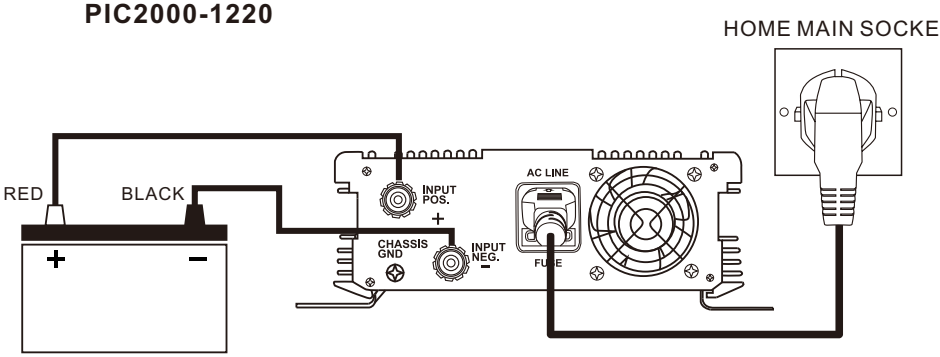
5. CHARGER

CONNECT AC INPUT POWER CORD TO HOME MAIN SOCKET THEN USE RED BATTERY CORD TO CONNECT (+) OF DC BATTERY TO (+) BINDING POST. AND USE BLACK BATTERY CORD TO CONNECT (-) BATTERY TO (-) BINDING POST.

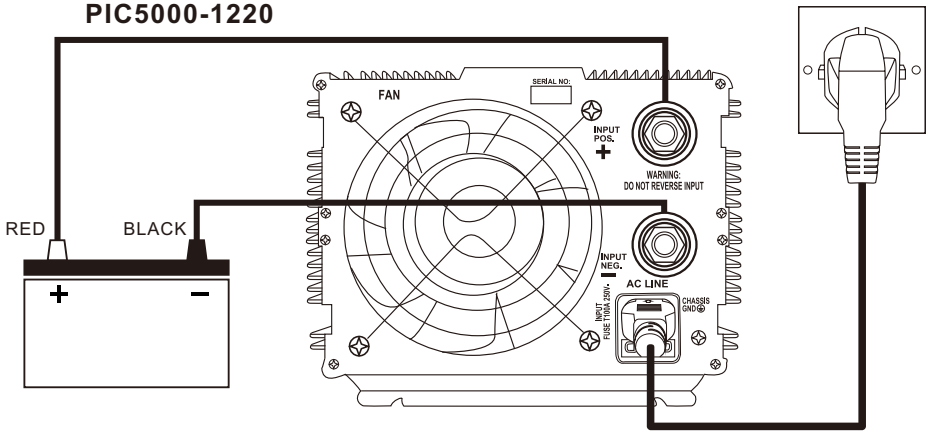
P/No. PIC500-1205、PIC600-1205

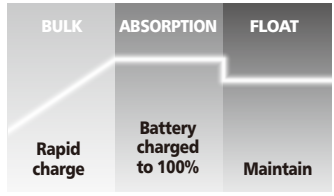


P/No. PIC800-1205、PIC1000-1210、PIC1200-1210、PIC1500-1210、PIC2000-1220



P/No. PIC3000-1220、PIC40000-1220、PIC5000-1220

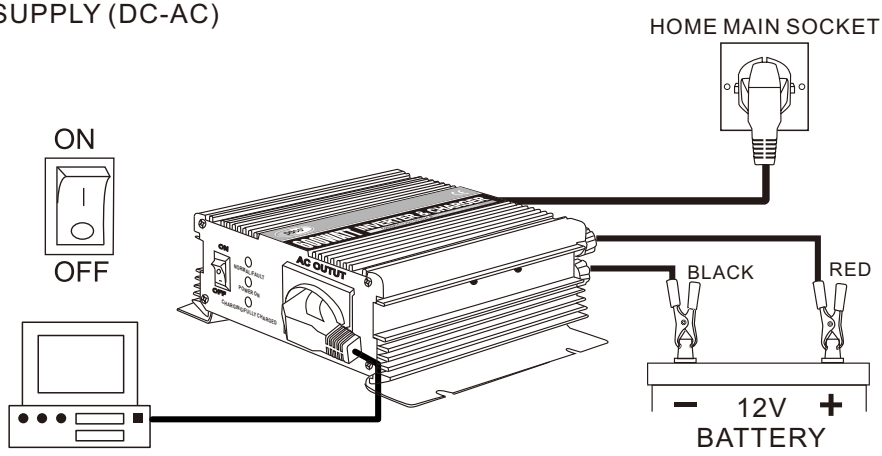




Superior 3 Stage Charging delivers a faster and more powerful charge, ideal for deep cycle batteries.
The first stage 'bulk' charges the battery faster while the second stage 'absorption' ensures the battery is thoroughly charged.
The final stage 'float' maintains the battery ready for use and can be left indefinitely.

6. AS UPS

IF YOU WANT TO USE IT AS U.P.S. TURN ON INVERTER WHEN THE BLACKOUT HAPPENS AT THE MEANTIME. THE INVERTER WILL AUTOMATICALLY CHANGE FROM ORIGINAL SUPPLY TO BATTERY SUPPLY (DC-AC)



7. INDICATING SIGN

GREEN/ RED LED LIGHT.

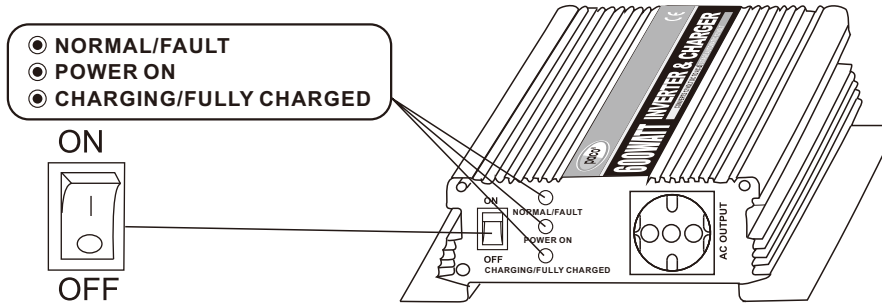
WHEN THE LED LIGHT ILLUMINATES IN GREEN COLOR, IT MEANS THE POWER SWITCH IS IN "ON" POSITION AND INVERTER IS WORKING NORMALLY. WHEN THE INVERTER IS AT FAULT, THE LED LIGHT WILL ILLUMINATES IN RED COLOR.

RED LED LIGHT.

WHEN THE RED LED LIGHT ILLUMINATES, IT MEANS THE INVERTER IS CONNECTED TO AC POWER SOURCE, BATTERY CHARGER INSIDE IS RECEVING POWER.

ORANGE）/ GREEN LED LIGHT.

WHEN THE LED LIGHT ILLUMNATES IN ORANGE COLOR, IT MEANS THE BATTERY IS BEING CHARGED, WHEN THE BATTERY IS FULLY CHARGED, THE ORANGE LED LIGHT WILL EXTINGUISH AND THE LED LIGHT WILL ILLUMINATE IN GREEN COLOR.



8. OUTPUT CAPACITY

The inverter will switch off automatically if the total wattage of the electrical appliances exceed the inverter's output capacity. This will also happen if the temperature of the inverter exceeds 65℃ +/-10% due to prolonged use.

9. SPECIAL RECOMMENDATION

- ◆Unplug the AC inverter when not in use.
- ◆Unplug the AC inverter when starting the vehicle's motor.
- ◆If the AC inverter makes a beeping sound: switch off your appliance, unplug the inverter and restart your vehicle's engine. The beeping sound implies a warning of low-battery， which indicates that the voltage of your battery is getting low. Your inverter will shut down automatically if you do not restart your engine and continue the use of your inverter. This will leave your vehicle's battery at about 10.5VDC (21VDC when using 24V inverter/42VDC when using 48V inverter), enabling you to start your engine and resume operation of the inverter. It also eliminates the possibility of being stranded with a dead battery.

◆To avoid over-discharging the battery, it is advisable to let your engine run for 10 to 20 minutes after every 2-3 hours of using the AC inverter. This allows your vehicle's battery to recharge.

◆Please remember to connect the "+" wire to the "+" terminal and the "-" wire to the "-" terminal if you choose to use an adapter in order to establish a direct connection between the AC inverter and the battery terminals.
IF YOU CONNECT THE WIRES TO INCORRECT TERMINALS, THE POLARITY WILL BE REVERSED AND THIS WILL DAMAGE THE INVERTER.

◆Please remember to disconnect the AC inverter before using the battery charger to replenish you battery's voltage. Failure to disconnect the inverter prior to connecting a charger may result in an input spike which will damage the inverter.

◆Make sure that the battery's voltage never exceeds 15VDC (30VDC when 24V version is used/60VDC when 48V version is used). AS THIS MAY DAMAGE THE INVERTER.

10. ADDING EXTENSION CORD

We recommend that the buyer refrain from using an extension cord between the DC power source and the inverter's DC input. Connecting an extension cord to the DC input will create a voltage drop, entailing reduced efficiency and output. Instead, we recommend the use of an extension cord between the AC output and the AC applicance You may use up to 100ft (30m) of high quality extension cord. A longer cord may result in reduced power.

11. GROUNDING CONNECTION

WARNING: BEFORE USING THIS INVERTER YOU MUST PROVIDE A GROUND CONNECTION TO THE INVERTER.

◆On the rear panel of the Inverter is a terminal fitted with a nut. This terminal is connected to the case of the Inverter and also to the earth terminal of the AC output socket. The use of this terminal will depend on your particular installation. In any installation, heavy duty, green-insulated wire should be used for this connection.

◆In a stationary land based installation, the earth terminal should be connected to a metal earthing stake driven into the ground to a depth of 1.2m or more, If the battery system powering the Inverter does not have a connection to ground, one of the battery terminals (commonly the negative terminal) should also be connected to the earthing stake.

◆In a vehicle where the Inverter is wired directly to the battery, the earth terminal is simply connected to the vehicle chassis. If the Inverter is to be used in a vehicle on a temporary basis and will be powered via the cigarette lighter socket in the vehicle, the earth terminal should be

connected via a short link to either the negative or positive DC input terminal of the Inverter, depending on whether the vehicle has a negative or positive chassis connection. However when using the Inverter to power equipment used outside the vehicle, an earthing stake should also be used, as described above.

◆In a boat, the earth terminal should be connected to the existing grounding system, which may be the hull of the craft, or a network of ground wires.

NOTE: The earth terminal of the AC outlet is connected to the neutral terminal. This is the same as a standard household power point where the neutral line is bonded to earth and there is normally no voltage between them

12. MEASURING AC VOLTAGE

The output wave of the AC inverter is a MODIFIED SINEWAVE. If you choose to measure the AC output voltage, you must use an AUTHENTIC RMS VOLT METER. Using any other type of voltage measuring device will result in an AC voltage reading that is up to 20 to 30 volts lower than the rated value. The reading will only be accurate when using an authentic RMS voltmeter.

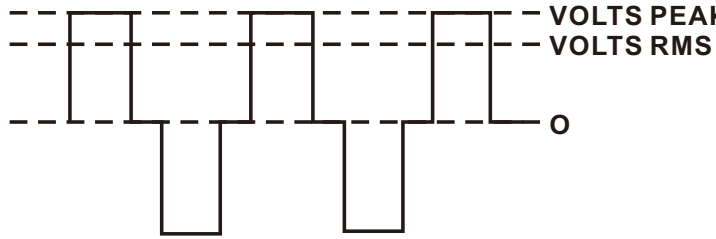
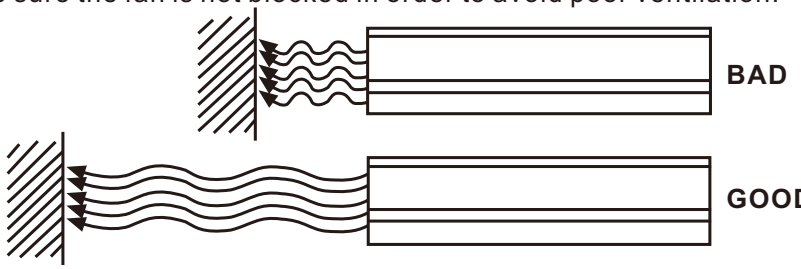


FIGURE 1: D/A INVERTER-MODIFIED SINEWAVE

13. VENTILATION

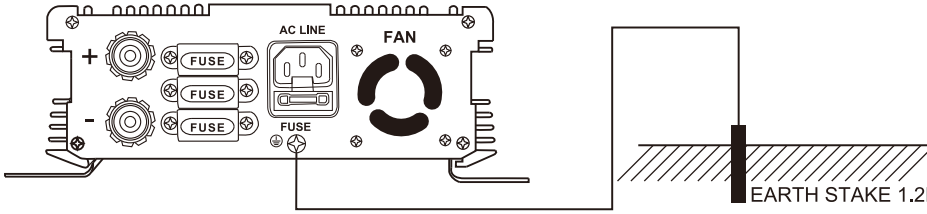
IMPORTANT! During operation, make sure the fan keeps revolving. Check the inverter for possible malfunctions if the fan does not work when this unit is being used.

Make sure the fan is not blocked in order to avoid poor ventilation.



14. CHASSIS EARTHING

The chassis earthing lug should be connected to an earthing point, which will vary depending on where the power inverter is installed. In a vehicle, connect the chassis ground lug to the chassis of the vehicle. In a boat, connect to the boat's grounding systems. In a fixed location, connect to earth.



15.CAUTION

In case of trouble with the AC output, e.g. short-circuit, overload, etc... the protection circuit will automatically cut off the output.
In such cases:

(A) switch off the power at once.
(B) disconnect all units.
(C) check the connected devices.
(D) use the units again unless the problems concerning the connected devices have been solved.

When in use for a prolonged period of time, the AC output may suddenly be cut off although the battery voltage is still very strong. This may be caused by excessive temperatures. If this happens. Please proceed as follows:

(A)Switch off the inverter at once.
(B)Disconnect some of the appliances or wait until the inverter cools off Switch the inverter back on.

Always keep the inverter in an environment which is:

(A)Well-ventilated.
(B)Not exposed to direct sunlight or any other heat source .
(C)Inaccessible to children.
(D)Safe from water/moisture, oil or grease.
(E)Safe from any flammable substance.

16. MAINTENANCE

Very little maintenance is required to keep your Inverter operating properly. You should clean the exterior of the unit periodically with a damp cloth to prevent accumulation of dust and dirt. At the same time, tighten the screws on the DC input terminals.

17. NOTE

All specifications typical at nominal line, half load, and 25℃ unless otherwise noted. Specifications subject to change without notice.
WARNING:
DO NOT DISASSEMBLE THE UNIT. HAZARDOUS VOLTAGE! DANGER!
PLEASE RETURN TO THE DEALER IF YOU FIND ANY PROBLEM WITH THE UNIT.

18. SUITABLE POWER SOURCE

◆In order to operate the inverter and supply power to an appliance, a suitable 12V DC power supply is required. This can be a vehicle or caravan battery, portable power pack or an independent 12V lead acid battery, For most applications, a deep cycle battery is recommended for best performance..

◆The size of the battery used will determine how long the inverter will supply power to an appliance and how well the inverter will perform. Most batteries are marked with their size in Amp hours (AH) or Cold Cranking Amps.

◆Because 12 Volt inverters are capable of drawing high currents, the inverter should only be connected to a suitable size battery, Connection to an undersized battery could damage the battery and will result in the inverter shutting down within a short period due to low battery voltage.

◆The amount of power dawn from the battery is proportional to the inverter load.

P/No. PIC500-1205、PIC600-1205、PIC800-1205、PIC1000-1210、PIC1200-1210

P/No.	PIC500-1205	PIC600-1205	PIC800-1205	PIC1000-1210	PIC1200-1210
Minimum Recommended Battery Size	50Ah	50Ah	75Ah	75Ah	75Ah
Run time maximum load & minimum battery size	35min	30min	20min	15min	10min
Run time for a 100 Watt globe with minimum battery size	4 hours	4 hours	6 hours	6 hours	6 hours
Ideal battery size	50-130Ah	50-130Ah	75-250Ah	75-250Ah	75-300Ah

P/No. PIC1500-1210、PIC2000-1220、PIC3000-1220、PIC3000-1220、PIC400-1220、PIC5000-1220

P/No.	PIC1500-1210	PIC2000-1220	PIC3000-1220	PIC4000-1220	PIC5000-1220
Minimum Recommended Battery Size	85Ah	85Ah	100Ah	150Ah	200Ah
Run time maximum load & minimum battery size	7min	5min	Not Recommended	Not Recommended	Not Recommended
Run time for a 100 Watt globe with minimum battery size	7 hours	7 hours	8 hours	12 hours	16 hours
Ideal battery size	85-400Ah	85-400Ah	100-500Ah	150-600Ah	200-700Ah

19. DETERMINING SUITABLE LOAD / APPLIANCES

The inverter is fitted with 1 to 2 approved EUROPEAN sockets (depending on model) either or both sockets can be used.
As long as the combined load (Watts required to run appliance) does not exceed the inverter' continuous rating. All appliances have a rating plate that shows the amount of power (Watts) used or the current (Amp) drawn under normal use.
The following table shows the maximum combined AC Amp Watts or AC Amp which can be run by the inverter.

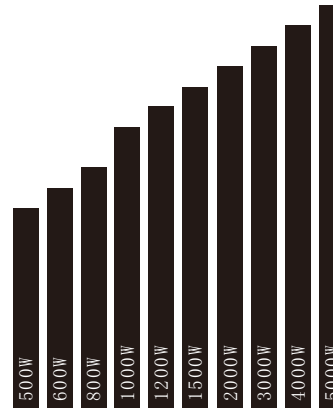
P/No.	PIC500-1205	PIC600-1205	PIC800-1205	PIC1000-1210	PIC1200-1210
AC combined max load (Watts)	500W	600W	800W	1000W	1200W
AC combined max load (Amps)	2.2A	2.7A	3.5A	4.4A	5.3A
Number of sockets	1	1	1	2	2

P/No.	PIC1500-1210	PIC2000-1220	PIC3000-1220	PIC4000-1220	PIC5000-1220
AC combined max load (Watts)	1500W	2000W	3000W	4000W	5000W
AC combined max load (Amps)	6.5A	8.7A	13.1A	17.4A	21.8A
Number of sockets	2	2	2	2	2

Note: For PIC4000-1220 & PIC5000-1220 do not exceed 3500W (16Amp) per socket outlet.

Some appliances that use an electric motor or transformer may draw 2 to 6 times their rating when first turned on. these are called inductive loads and are the most difficult tor the inverter to run.
For these appliances it is often a matter of trial and error to see what size inverter they will run on. if in doubt always use a larger inverter. The following table is a guide to the appropriate AC Watt drawn by various appliances. The DC Amp column shows the approximate power drawn from the 12 Volt supply.

APPLICATION CHART Appliance	Approximate AC Watts	 DC Amps
Small Air Compressor*/Water Heater	5000	470
Small Air Compressor*/Water Heater	4000	380
Larger Power Tools*/Electric Kettle	3000	260
Circular Power Saw/Electric Chainsaw	2000	175
Toaster/Sandwich Maker	1500	140
Small Household Vacuum Cleaner	1250	95
Belt Sander & other Power Tools	1000	92
Small Microwave Oven (500/600W)*	900	83
Combo TV/VCR	750	69
Power Drill/Portable Grinder	600	50
Flood Lights (500W)	500	46
Submersible Pump*	400	37
Small Colour Television*	350	32
Small Power Tools/Fluorescent Light*	300	28
Juicer/Blender	250	23
Bar Fridge*/Large Stereo/PA Amplifier	200	19
Hand Mixer	175	16
Laptop Computer/Electric Knife	150	12
Portable Stereo/CD/DVD/VCR/Playstation	100	9
Charger/Mobile Phone/Camera/Camcorder	50	5

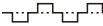


※ Appliance may require larger inverter.

20. HARD WIRED CONNECTION

When mounting the inverter in a vehicle, boat or cabin it may be preferable to use longer DC battery cables than those supplied, so that the inverter can be placed in a more convenient cooler or more protected location.

21. SPECIFICATION

P/No.		PIC500-1205	PIC600-1205	PIC800-1205
INVERTER	DC Input Voltage (Rated)	12V ⎓, 45.5A	12V ⎓, 55A	12V ⎓, 73A
	DC Input Voltage (Range)	10-15V⎓	10-15V⎓	10-15V⎓
	Input Standby Current (12VDC,+/-5%)	⩽0.6A	⩽0.6A	⩽0.6A
	AC Output Voltage	☐ **230V~**	☐ **220-240V~**	☐ **110V~**
	Output Frequenc	☐ 50Hz	☐ 60Hz	
	Output Regulation	+/-5% Intelligent Pwm		
	Output Power (Continuous Watts)	500W, 2.2A	600W, 2.7A	800W, 3.5A
	Output Power (Peak Watts)	1000W	1200W	1600W
	Output Waveform	Modified Sine Wave 		
	Low Battery-Voltage Alarm (Volts)	10.5V⎓ +/-0.5V		
	Low Battery-Voltage Shutdown (Volts)	10.0V⎓ +/-0.5V		
	Thermal Shutdown	65℃+/-5℃		
	Efficiency	85-90%		
	Cooling Fan	Automatic temperature controlled		
	Overload	Shut Down & Alarm		
	Battery Polarity Reverse	By Fuse		
	Output Short	Output Short Circuit Protection		
	Replacement Fuse	Standard Auto Blade Fuse		
	Fuse Quantity & Size	3x20A	3x25A	4x25A
	Fuse Location	External	External	Internal*
	Connection Cable	6.0mm²/900mm	6.0mm²/900mm	10.0mm²/1100mm
CHARGER	**Rated Input**	☐ **230V~**	☐ **220-240V~**	☐ **110V~**
	Input Frequency	☐ 50Hz	☐ 60Hz	
	Input Power	0.72A	0.72A	0.85A
	Rated Output	12VDC, 5000mA	12VDC, 5000mA	12VDC, 5000mA
	Minimum Start Voltage	4.5V	4.5V	4.5V
	Current Fuse Rating (Internal)	250VAC, F2.5A	250VAC, F2.5A	250VAC, F3.15A
	Current Fuse Rating (External)	250VAC, T10.0A	250VAC, T10.0A	250VAC, T10.0A
	Fuse Quantity & Size	5x20mm	5x20mm	5x20mm
	Type	3 Stage automatic	3 Stage automatic	3 Stage automatic
	Charge Control	**Bulk 5000mA (up to 14.7V)/Absorption 14.4V/Float 13.8V**		
	Thermal Protect (fan ON)	65℃+/-5℃		
	Efficiency	App.85%		
	Battery Type	For charging 12V lead acid batteries ONLY		
	Performance	Micro-processing switching mode		
	Input Short	Input Short Circuit Protection		
	Output Short	Output Short Circuit Protection		
	Output Polarity Reverse	Output Polarity Reverse Circuit Protection		
Automatic Switch / Transfer Time		AC Line to Inverter ,Inverter to AC Line / Transfer Time 10ms		
Dimension (L x W x H)		255 x 212 x 67mm	255 x 212 x 67mm	360 x 212 x 67mm
Weight		2.2Kg	2.3Kg	3.0Kg

※Internal fuses should only be replaced by qualified electrical appliance repairer

SPECIFICATION

P/No.		PIC1000-1210	PIC1200-1210	PIC1500-1210
INVERTER	DC Input Voltage (Rated)	12V ⎓, 91A	12V ⎓, 110A	12V ⎓, 137A
	DC Input Voltage (Range)	10-15V ⎓	10-15V ⎓	10-15V ⎓
	Input Standby Current (12VDC,+/-5%)	≤0.65A	≤0.65A	≤0.7A
	AC Output Voltage	☐ **230V~** ☐ **220-240V~** ☐ **110V~**		
	Output Frequenc	☐ 50Hz ☐ 60Hz		
	Output Regulation	+/-5% Intelligent Pwm		
	Output Power (Continuous Watts)	1000W, 4.4A	1200W, 5.3A	1500W, 6.5A
	Output Power (Peak Watts)	2000W	2400W	3000W
	Output Waveform	Modified Sine Wave ⎍⎍⎍		
	Low Battery-Voltage Alarm (Volts)	10.5V ⎓ +/-0.5V		
	Low Battery-Voltage Shutdown (Volts)	10.0V ⎓ +/-0.5V		
	Thermal Shutdown	65°C+/-5°C		
	Efficiency	85-90%		
	Cooling Fan	Automatic temperature controlled		
	Overload	Shut Down & Alarm		
	Battery Polarity Reverse	By Fuse		
	Output Short	Output Short Circuit Protection		
	Replacement Fuse	Standard Auto Blade Fuse		
	Fuse Quantity & Size	6x20A	6x25A	9x20A
	Fuse Location	Internal*	Internal*	Internal*
	Connection Cable	16mm^2/1100mm	16mm^2/1100mm	25mm^2/1100mm
CHARGER	**Rated Input**	☐ **230V~** ☐ **220-240V~** ☐ **110V~**		
	Input Frequency	☐ 50Hz ☐ 60Hz		
	Input Power	1.30A	1.30A	1.65A
	Rated Output	12VDC, 10,000mA	12VDC, 10,000mA	12VDC, 10,000mA
	Minimum Start Voltage	4.5V	4.5V	4.5V
	Current Fuse Rating (Internal)	250VAC, F3.15A	250VAC, F3.15A	250VAC, F3.15A
	Current Fuse Rating (External)	250VAC, T10.0A	250VAC, T10.0A	250VAC, T10.0A
	Fuse Quantity & Size	5x20mm	5x20mm	5x20mm
	Type	3 Stage automatic	3 Stage automatic	3 Stage automatic
	Charge Control	**Bulk 10,000mA (up to 14.7V)/Absorption 14.4V/Float 13.8V**		
	Thermal Protect (fan ON)	65°C+/-5°C		
	Efficiency	App.85%		
	Battery Type	For charging 12V lead acid batteries ONLY		
	Performance	Micro-processing switching mode		
	Input Short	Input Short Circuit Protection		
	Output Short	Output Short Circuit Protection		
	Output Polarity Reverse	Output Polarity Reverse Circuit Protection		
Automatic Switch / Transfer Time		AC Line to Inverter ,Inverter to AC Line / Transfer Time 10ms		
Dimension (L x W x H)		365 x 242 x 76mm	365 x 242 x 76mm	415 x 242 x 76mm
Weight		3.8Kg	3.9Kg	4.5Kg

※Internal fuses should only be replaced by qualified electrical appliance repairer

SPECIFICATION

P/No.		PIC2000-1220	PIC3000-1220	PIC4000-1220
INVERTER	DC Input Voltage (Rated)	12V ⎓, 183A	12V ⎓, 275A	12V ⎓, 367A
	DC Input Voltage (Range)	10-15V ⎓	10-15V ⎓	10-15V ⎓
	Input Standby Current (12VDC,+/-5%)	⩽0.7A	⩽0.75A	⩽0.8A
	AC Output Voltage	☐ **230V~**	☐ **220-240V~**	☐ **110V~**
	Output Frequenc	☐ 50Hz	☐ 60Hz	
	Output Regulation	+/-5% Intelligent Pwm		
	Output Power (Continuous Watts)	2000W, 8.7A	3000W, 13.1A	4000W, 17.4A
	Output Power (Peak Watts)	4000W	6000W	8000W
	Output Waveform	Modified Sine Wave ⎍⎍⎍⎍		
	Low Battery-Voltage Alarm (Volts)	10.5V ⎓ +/-0.5V		
	Low Battery-Voltage Shutdown (Volts)	10.0V ⎓ +/-0.5V		
	Thermal Shutdown	65℃+/-5℃		
	Efficiency	85-90%		
	Cooling Fan	Automatic temperature controlled		
	Overload	Shut Down & Alarm		
	Battery Polarity Reverse	By Fuse		
	Output Short	Output Short Circuit Protection		
	Replacement Fuse	Standard Auto Blade Fuse		
	Fuse Quantity & Size	12x25A	18x25A	24x25A
	Fuse Location	Internal*	Internal*	Internal*
	Connection Cable	25mm^2/1100mm	35mm^2/1100mm	50mm^2/1100mm
CHARGER	**Rated Input**	☐ **230V~**	☐ **220-240V~**	☐ **110V~**
	Input Frequency	☐ 50Hz	☐ 60Hz	
	Input Power	2.65A	2.75A	2..85A
	Rated Output	12VDC, 20,000mA	12VDC, 20,000mA	12VDC, 20,000mA
	Minimum Start Voltage	4.5V	4.5V	4.5V
	Current Fuse Rating (Internal)	250VAC, F3.15A	250VAC, F3.15A	250VAC, F3.15A
	Current Fuse Rating (External)	250VAC, T10.0A	250VAC, T10.0A	250VAC, T10.0A
	Fuse Quantity & Size	5x20mm	5x20mm	5x20mm
	Type	3 Stage automatic	3 Stage automatic	3 Stage automatic
	Charge Control	**Bulk 20,000mA (up to 14.7V)/Absorption 14.4V/Float 13.8V**		
	Thermal Protect (fan ON)	65℃+/-5℃		
	Efficiency	App.85%		
	Battery Type	For charging 12V lead acid batteries ONLY		
	Performance	Micro-processing switching mode		
	Input Short	Input Short Circuit Protection		
	Output Short	Output Short Circuit Protection		
	Output Polarity Reverse	Output Polarity Reverse Circuit Protection		
Automatic Switch / Transfer Time		AC Line to Inverter ,Inverter to AC Line / Transfer Time 10ms		
Dimension (L x W x H)		525 x 242 x 76mm	440 x 210 x 156mm	510 x 210 x 156mm
Weight		5.8Kg	7.2Kg	8.7Kg

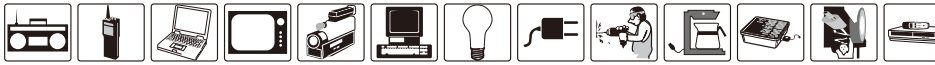
※Internal fuses should only be replaced by qualified electrical appliance repairer

SPECIFICATION

P/No.		PIC5000-1220		
INVERTER	DC Input Voltage (Rated)	12V ⎓, 458A		
	DC Input Voltage (Range)	10-15V⎓		
	Input Standby Current (12VDC,+/-5%)	≤0.9A		
	AC Output Voltage	☐ **230V~** ☐ **220-240V~** ☐ **110V~**		
	Output Frequenc	☐ 50Hz ☐ 60Hz		
	Output Regulation	+/-5% Intelligent Pwm		
	Output Power (Continuous Watts)	5000W, 21.8A		
	Output Power (Peak Watts)	10,000W		
	Output Waveform	Modified Sine Wave ⎍⎍⎍		
	Low Battery-Voltage Alarm (Volts)	10.5V⎓ +/-0.5V		
	Low Battery-Voltage Shutdown (Volts)	10.0V⎓ +/-0.5V		
	Thermal Shutdown	65℃+/-5℃		
	Efficiency	85-90%		
	Cooling Fan	Automatic temperature controlled		
	Overload	Shut Down & Alarm		
	Battery Polarity Reverse	By Fuse		
	Output Short	Output Short Circuit Protection		
	Replacement Fuse	Standard Auto Blade Fuse		
	Fuse Quantity & Size	30x25A		
	Fuse Location	Internal*		
	Connection Cable	70mm^2/1100mm		
CHARGER	**Rated Input**	☐ **230V~** ☐ **220-240V~** ☐ **110V~**		
	Input Frequency	☐ 50Hz ☐ 60Hz		
	Input Power	2.95A		
	Rated Output	12VDC, 20,000mA		
	Minimum Start Voltage	4.5V		
	Current Fuse Rating (Internal)	250VAC, F3.15A		
	Current Fuse Rating (External)	250VAC, T10.0A		
	Fuse Quantity & Size	5x20mm		
	Type	3 Stage automatic		
	Charge Control	**Bulk 20,000mA (up to 14.7V)/Absorption 14.4V/Float 13.8V**		
	Thermal Protect (fan ON)	65℃+/-5℃		
	Efficiency	App.85%		
	Battery Type	For charging 12V lead acid batteries ONLY		
	Performance	Micro-processing switching mode		
	Input Short	Input Short Circuit Protection		
	Output Short	Output Short Circuit Protection		
	Output Polarity Reverse	Output Polarity Reverse Circuit Protection		
Automatic Switch / Transfer Time		AC Line to Inverter ,Inverter to AC Line / Transfer Time 10ms		
Dimension (L x W x H)		505 x 210 x 156mm		
Weight		9.5Kg		

※Internal fuses should only be replaced by qualified electrical appliance repairer

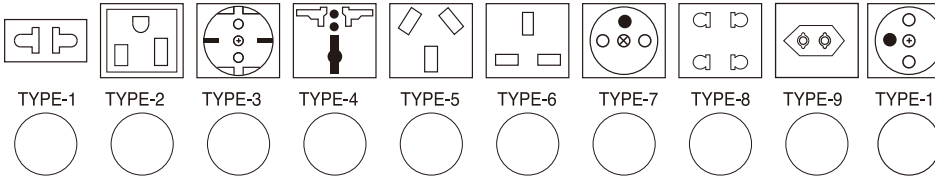
WITH THIS "INVERTER" YOU WON'T HAVE TO WORRY ABOUT POWER OUTAGES OR BROWNOUTS!



WARINIG:

To prevent fire shock hazard do not expose this appliance to rain or moisture.

AC OUTPUT SOCKET:



CAUTION:

ALWAYS PLACE THE INVERTER IN AN ENVIRONMENT WHICH IS:

(A)WELL VENTILATED.

(B)NOT EXPOSED TO DIRECT SUNLIGHT OR HEAT SOURCE.

(C)OUT OF REACH FROM CHILDREN.

(D)AWAY FROM WATER/MOISTURE, OIL OR GREASE.

(E)AWAY FROM ANY FLAMMABLE SUBSTANCE SECURE AND NO RISK OF FALLING.