## **PURE SINE WAVE INVERTER**

300W-6000W Multi-function LCD display

# DC TO AC



**User Manual** 

2022-V1.0

# CONTENTS

I. Pretace ····································	01
2. Matters needing attention •••••••	01
3. Product features ••••••••	02
4. Product application ••••••••	02
5. Panel description ••••••••	03-05
6. Liquid crystal display	06
7. Protection function ••••••••	06
B. Liquid crystal display	08
9. Remote control instructions •••••••	08
10. Display instructions ••••••••	
11. Product parameters ••••••••	11-12
12. Installation requirements • • • • • • • • • • • • • • • • • • •	
13. Wiring requirements ••••••••	13
14. Common problems and solutions •••	14
15. After-sales service •••••••••	15

Please read the instruction manual carefully before use.
This manual refers to the graphic reference, whichever is the real thing.

#### **PREFACE**

#### Dear user:

First of all, thank you for choosing our pure sine wave inverter. All products of our company have undergone strict production control, quality control and accurate testing and proof, so that all the requirements specified in the specifications can be met after delivery. Users can rest assured to buy and use!

#### PRECAUTIONS

The installation and commissioning of this equipment shall be carried out by professional electrical maintenance personnel who are familiar with the structure and operation of the device. Failure to follow this precaution could result in bodily harm.

Do not connect this equipment to a consumer utility line box, such as a home line.

Keep the inverter away from water, and avoid dropping water on the machine or getting it up. Do not insert or pull the plug with wet hands. Keep the inverter in a cool environment, suitable temperature should be -20  $^{\circ}$  C  $\sim$  40  $^{\circ}$  C, avoid direct sunlight and hot vents.

Keep the inverter away from flammable materials or where flammable gases accumulate.

After prolonged use, the inverter will heat up, so avoid getting close to heat sensitive substances.

Make sure the vents are smooth and well cooled.

Do not open the machine due to high voltage danger.

Use a suitable type of wire to avoid blowing the wire due to excessive inverter current.

Make sure the inverter is connected to the correct battery, otherwise the fuse of the inverter will be blown. Turn off the switch when the machine is not in use.Please turn off the switch before cleaning and clean it with a dry cloth.Do not use a damp cloth or detergent.

## PAGE 01

#### FEATURES

The inverter power supply adopts SPWM technology controlled by MCU micro-processing, pure sine wave output, and the waveform is pure. The unique dynamic current loop control technology ensures reliable operation of the inverter.

Load adaptability, including inductive load, capacitive load, resistive load, mixed load.

Heavy load capacity and impact resistance.

It has perfect protection functions such as input overvoltage,

The sine wave inverter adopts LCD liquid crystal display mode,

undervoltage, overload, overheat, and output short circuit.

and the state is clear at a glance.

Stable performance, safe and reliable, long service life.

## APPLICATIONS

Power Tools: Circular saws, electric drills, grinding machines, grinders,

bumpers, weeders and trimmers, air compressors

Home entertainment electronic devices: TV, video cassette recorders,

video game consoles, audio, musical instruments, satellite equipment

Industrial equipment: cloud server, face recognition server, intelligent

manufacturing robot, emergency system

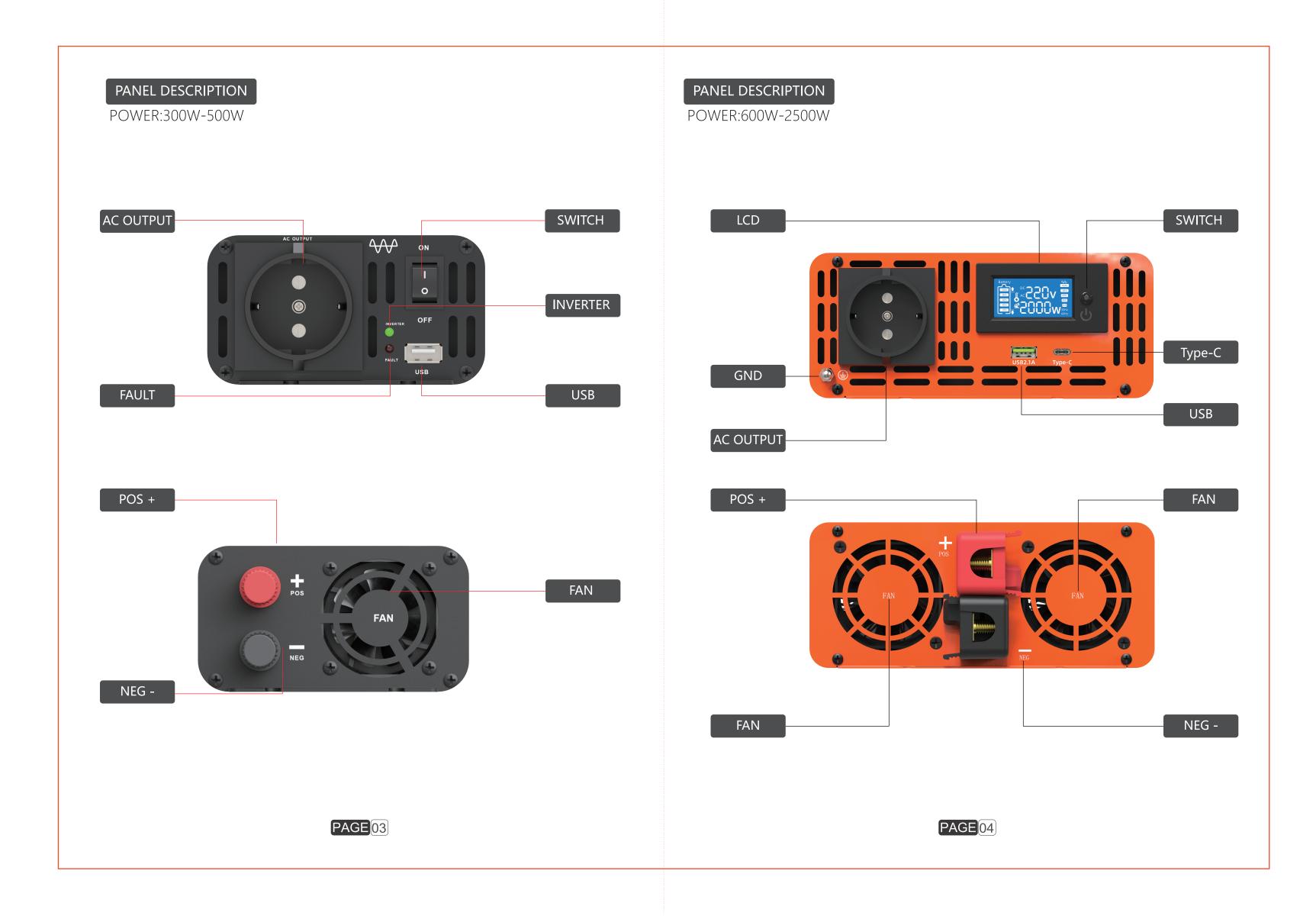
Household appliances: vacuum cleaners, fans, fluorescent and

incandescent lamps, razors, sewing machines

Office equipment: computers, printers, surveillance, fax machines, scanners

Kitchen appliances: coffee machine, blender, ice mark, toaster

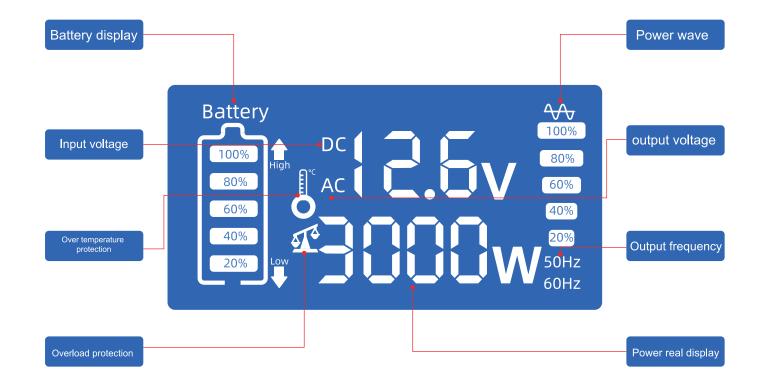




# PANEL DESCRIPTION POWER:3000W-6000W AC OUTPUT LCD SWITCH Type-C USB GND POS + FAN NEG -FAN

PAGE 05

## Display (1)

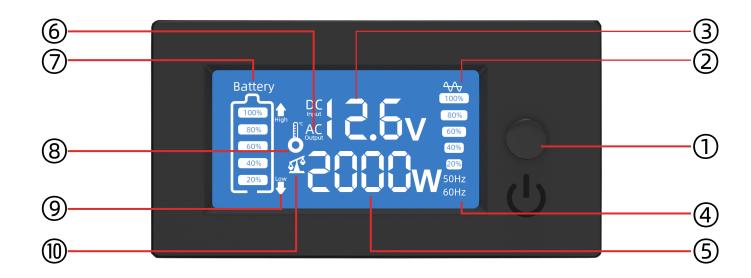


#### Protective function

- (1) Low-voltage alarm: The buzzer sounds 2 audible with 1 Hz gap.
- (2) Low voltage protection: The buzzer continuously sounds 3time alarm, with1 Hz gaps
- (3) Low-voltage recovery: the low-voltage rise automatically restores the output, and the buzzer sounds 3times alarm is cancelled.
- (4) Overvoltage protection: The buzzer sounds 4 times, with 1 Hz gap.
- (5) Overvoltage recovery: The voltage is reduced automatically to restore the output, and the buzzer sounds 4times alarm is cancelled.
- (6) thermal protection: 80 °  $\pm$  5 °, when overheat protection buzzer sounds 5 times alarm, with 1Hz gap
- (7) Overload protection: 10S automatic shutdown output for overload protection,
- 5S automatic recovery, automatic locking for three consecutive times
- (8) Short circuit protection: Output short circuit protection 1S shutdown lock.
- (9) The input is reversed: the fuse is blown.



## Display (2)



①switch ④Output frequency

1. Press for 1 second to turn on SOutput power

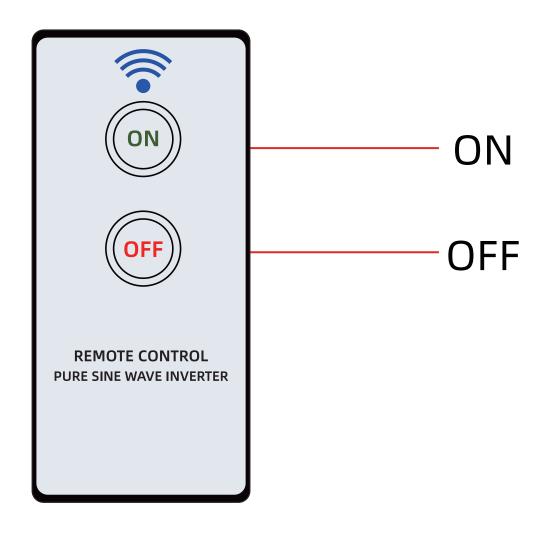
2. Press for 3 seconds to shut down ©Output voltage

4. Power on and press for 3 seconds to pair the wireless remote control <code>®Overheat</code> protection

②Load ratio 

⑤ Low voltage protection

## Remote



## **Remote control**

#### Instructions

The remote control needs to be paired with the inverter before use; long press to reverse Change the power on button for 3 seconds, then press the remote power on button again to complete the setting. remote control

The control range of the device is less than or equal ≤10 meters.

Remote protocol:RF

Remote control is optional

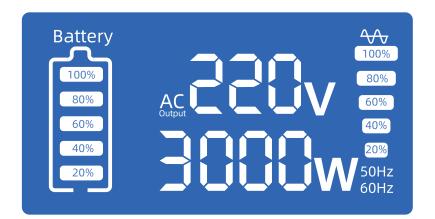
PAGE 07





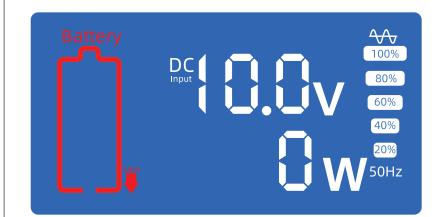
## Show description

- 1. Battery capacity
- 2. Power display
- 3. Input voltage
- 4. Output power
- 5. Load ratio
- 6. Output frequency 50/60Hz



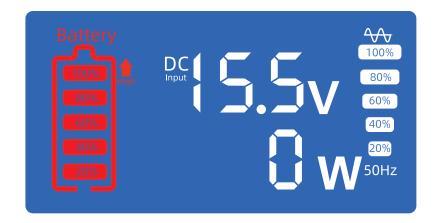
## Show description

- 1. Battery capacity
- 2. Power display
- 3. Output voltage 110V or 220v
- 4. Output power
- 5. Load ratio
- 6. Output frequency 50/60Hz



## Low voltage protection

- 1. Measured battery voltage
- 2. The battery indicator flashes
- 3. The output voltage is 0 volts
- 4. Output power 0 watts
- 5. Load ratio 0%
- 6. Buzzer 3×Beeep



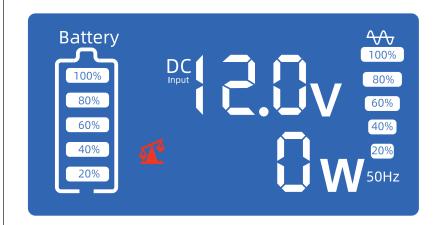
## Overvoltage protection

- 1. Measured battery voltage
- 2. The battery indicator flashes
- 3. The output voltage is 0 volts
- 4. Output power 0 watts
- 5. Load ratio 0%
- 6. Buzzer 4×Beeeep



## Overheating protection

- 1. The battery voltage is normal
- 2. The battery display is normal
- 3. The output voltage is 0 volts
- 4. Output power 0 watts
- 5. Load ratio 0%
- 6. Buzzer 5×Beeeeep



## Overload protection

- 1. The battery voltage is normal
- 2. The battery display is normal
- 3. The output voltage is 0 volts
- 4. Output power 0 watts
- 5. Load ratio 0%
- 6. Buzzer Beeeep......

PAGE 09

PAGE 10

## Technical specifications

Model	300W	600W	1000W	1500W	2000W
Output Power	300W	600W	1000W	1500W	2000W
Display method	LED	LCD			
Input voltage		12V/2	24V/48V/60V/7	<sup>7</sup> 2Vdc	
Input range	12Vdc(10-	15),24Vdc(20-30 <u>)</u>	),48Vdc(40-60),6	0Vdc(50-75),72\	/dc(60-90)
Low voltage protection	12V(10.0V±0.3	3),24V(20.0V±0.3)	,48V(40.0V±0.3),	60V(50.0V±0.3),7	/2V(60.0V±0.3)
High voltage protection	12V(15.0V±0.3	3),24V(30.0V±0.3)	,48V(60.0V±0.3),	60V(75.0V±0.3),7	72V(90.0V±0.3)
Recovery voltage	12V(12.8V±0.3	3),24V(25.6V±0.3)	,48V(51.0V±0.3),6	50V(65.0V±0.3),7	2V(78.0V±0.3)
No-load current	0.35A	0.50A	0.60A	0.60A	0.70A
Overload protection	≤130%				
Output voltage	110Vac±10% or 220Vac±10%				
Output frequency	50Hz±1Hz or 60Hz±1Hz				
Output waveform	Pure sine wave				
Overheating protection	80°±5°				
Waveform THD	≤3%THD				
Conversion efficiency	90%				
cooling method	Fan cooling				
Dimensions	183*110*60mm 228*173*76mm 300*173*76mm 360*173*76mm				
Product weight	1.0kg	2.0kg	3.0kg	3.5kg	4.0kg

## Technical specifications

Model	2500W	3000W	4000W	5000W	6000W
Output Power	2500W	3000W	4000W	5000W	6000W
Display method			LCD		
Input voltage	12V/24	4V/48V/60V/7	2Vdc	24V/48V/6	50V/72Vdc
Input range	12Vdc(10-	15),24Vdc(20-30	),48Vdc(40-60),6	0Vdc(50-75),72\	/dc(60-90)
Low voltage protection	12V(10.0V±0.3	),24V(20.0V±0.3)	,48V(40.0V±0.3),	60V(50.0V±0.3),7	2V(60.0V±0.3)
High voltage protection	12V(15.0V±0.3	),24V(30.0V±0.3)	,48V(60.0V±0.3),	60V(75.0V±0.3),7	2V(90.0V±0.3)
Recovery voltage	12V(12.8V±0.3	s),24V(25.6V±0.3)	),48V(51.0V±0.3),6	50V(65.0V±0.3),7	2V(78.0V±0.3)
No-load current	080A	1.2A	1.2A	0.8A	0.8A
Overload protection	≤130%				
Output voltage	110Vac±10% or 220Vac±10%				
Output frequency	50Hz±1Hz or 60Hz±1Hz				
Output waveform	Pure sine wave				
Overheating protection	80°±5°				
Waveform THD	≤3%THD				
Conversion efficiency	90%				
cooling method	Fan cooling				
Dimensions	360*173*76mm	360*173*76mm 400*242*88mm 420*242*88mm		2*88mm	
Product weight	4.0kg	7.5kg	8.0kg	9.0kg	10.0kg

PAGE 11

PAGE 12

#### USE ENVIRONMENT

Install the inverter according to local power requirements.

The installation location must be dry, clean and well ventilated.

Working temperature : -20°C to 40°C

Storage temperature : -10 to 40°C

Relative humidity: 0%-90%, no condensation

Cooling: forced ventilation

### WIRING REQUIREMENTS

1 meter long battery line configuration requirements.

POWER	DC INPUT	Wire diameter
600W	12V	10AWG
600W	24/48V	12AWG
1000W	12V	7AWG
1000W	24/48V	10AWG
2000W	12V	4AWG
2000W	24/48V	7AWG
3000W	12V	2AWG
3000W	24/48V	4AWG
4000W	12V	1AWG
4000W	24/48V	4AWG
5000W	12V	2AWG*2
5000W	24/48V	4AWG

- Subject to outside interference
- The inverter may be affected by some strong electromagnetic waves
   in the use, such as nearby motors, power inverters, strong magnetic fields, etc.
   Inverter indicator is not light
  - 1. The battery and inverter are not connected and reconnected.
  - 2. The pole of the battery is reversed and the fuse is blown. Replace the fuse.
- Low output voltage
  - 1. Overload, the load current exceeds the nominal current, and some of the load is turned off to restart.
  - 2. The input voltage is too low. Make sure the input voltage is within the nominal voltage range.
- Low voltage alarm
  - 1. The battery is out of power and needs to be charged.
  - 2. The battery voltage is too low or the contact is poor, recharge, check the battery terminals or clean the terminals with a dry cloth.
- Inverter has no output
  - 1. The battery voltage is too low, recharge or replace the battery.
  - 2. The load current is too high, and some of the load is turned off to restart the inverter.
  - 3. Inverter over temperature protection. Allow the inverter to cool for a while and place it in a well ventilated area.
  - 4. The inverter failed to start and restarted.
  - 5. The terminal is reversed, the fuse is blown, and the fuse is replaced.

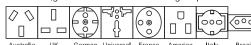
#### FORM ON VOLTS / HZ AND PLUG STYLE FOR WORLDWIDE COUNTRY(AREA)

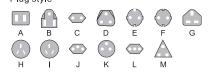
NORTHAMERICA	Country	Volts/Hz	
U.S.A         120V/60Hz         A&B           CENTRAL AMERICA         CENTRAL AMERICA           Anguilla         110V/60Hz         C           Antigua         230V/60Hz         A&B           Bahamas         120V/60Hz         A&B           Berbados         115V/50Hz         A&B           Belize         110/220V/60Hz         A&B           Bermuda         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Dominican         110V/60Hz         A&B           Geranda         230V/50Hz         G           Guatemala         120V/60Hz         A&B           Haiti         110V/60Hz         A&B           Honduras         110V/60Hz         A&B           Mexico         127V/60Hz         A&B           Mexico         120V/60Hz         A&B           Vierpin Islands         110V/60Hz         A&B		NORTH AMERICA	
CENTRAL AMERICA	Canada	120V/60Hz	A&B
Anguilla         110V/60Hz         C           Antigua         230V/60Hz         A&B           Bahamas         120V/60Hz         A&B           Barbados         115V/50Hz         A&B           Berlize         110/220V/60Hz         A&B           Bermuda         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&B C&L           Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Jamaica         110V/50Hz         A&B           Mexico         127V/60Hz         A           Nicaragua         230V/50Hz         C&F           Nicaragua         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/20V/60Hz         A&B           Virgin Islands         110V/20V/60Hz <t< td=""><td>U.S.A</td><td>120V/60Hz</td><td>A&amp;B</td></t<>	U.S.A	120V/60Hz	A&B
Antigua			
Barbados         115V/50Hz         A&B           Barbados         115V/50Hz         A&B           Belize         110/220V/60Hz         B&G           Bermuda         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&B C&L           Dominican         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Honduras         110V/50Hz         A&B           Jamaica         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         L           Netherlands         230V/50Hz         L           Panama         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/20Hz         C&I           Brazil         110V/20Hz         C&I           Chille         220V/50Hz         C&I <td></td> <td></td> <td></td>			
Barbados         115V/50Hz         A&B           Belize         110/220V/60Hz         B&G           Bermuda         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&B C&L           Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Jamaica         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         C&F           Nicaragua         230V/50Hz         C&F           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           SUTHAMERICA         A         ARB           Chile         220V/50Hz         C&I           Chile         220V/50Hz         C&I           Guyan         240V/60Hz         A&B <td></td> <td></td> <td></td>			
Belize         110/220V/60Hz         A&B           Bermuda         120V/60Hz         A&B           Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&BC           Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/60Hz         A&B           Haiti         110V/60Hz         A&B           Honduras         110V/60Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         C           Netherlands         230V/50Hz         L           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/20V/60Hz         A&B           Virgin Islands         110V/20V/60Hz         C&I           Brazil         110/220V/50Hz         C&I           Chille         220V/50Hz         <			
Bermuda			
Costa Rica         120V/60Hz         A&B           Cuba         110/220V/60Hz         A&B C&L           Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           SOUTH AMERICA         A         ARB&C           Chile         220V/50Hz         C&I           Brazil         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Surinam         127V/60Hz         C&F<			
Cuba         110/220V/60Hz         A&B C&L           Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/20V/60Hz         A&B           Virgin Islands         110V/20V/60Hz         A&B           Guyana         220V/50Hz         C&L           Chile         220V/50Hz         C&L           Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         A&B&C           Surinam         127V/60Hz <td></td> <td></td> <td></td>			
Dominica         230V/50Hz         D&G           Dominican         110V/60Hz         A           Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Jamaica         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           SOUTH AMERICA         Argentina         220V/50Hz         C&I           Chile         220V/50Hz         C&L           Columbia         110V/20V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         A&B           Guyana         240V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay <t< td=""><td></td><td></td><td></td></t<>			
Dominican			
Grenada         230V/50Hz         G           Guatemala         120V/60Hz         A.B.G.&I           Haiti         110V/60Hz         A&B           Honduras         110V/50Hz         A&B           Mexico         127V/60Hz         A           Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           SOUTH AMERICA           Argentina         220V/50Hz         C&I           Argentina         220V/50Hz         C&I           Chile         220V/50Hz         C&I           Columbia         110V/60Hz         A&B           Ecuador         120V/27V/60Hz         A&B           Ecuador         120V/27V/60Hz         A&B           Guyana         240V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         C&F           Uruguay         220V/50Hz         C			
Guatemala   120V/60Hz   A.B.G.&  Haiti   110V/60Hz   A&B   Honduras   110V/60Hz   A&B   A&B   Jamaica   110V/50Hz   A&B   Mexico   127V/60Hz   A   Netherlands   230V/50Hz   C&F   Nicaragua   230V/50Hz   I   Panama   110V/60Hz   A&B   Puerto Rico   120V/60Hz   A&B   Virgin Islands   110V/60Hz   A&B   SOUTH AMERICA   A&B   Chile   220V/50Hz   C&L   Columbia   110V/60Hz   A&B   CC   Chile   220V/50Hz   C&L   Columbia   110V/60Hz   A&B   Guyana   240V/60Hz   A&B   Guyana   240V/60Hz   A&B   ABD&G   Paraguay   220V/50Hz   CF   Peru   220V/50Hz   CF   CF   CF   CF   CF   CF   CF   C			
Haiti			_
Honduras			
Mexico			
Netherlands         230V/50Hz         C&F           Nicaragua         230V/50Hz         I           Panama         110V/60Hz         A&B           Puerto Rico         120V/60Hz         A&B           Virgin Islands         110V/60Hz         A&B           SOUTH AMERICA           Argentina         220V/50Hz         C&I           Brazil         110/220V/60Hz         A&B&C           Chile         220V/50Hz         C&L           Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         A&B           Guyana         240V/60Hz         A&B&C           Peru         220V/50Hz         C           Peru         220V/50Hz         C           Uruguay         220V/50Hz         CFIB&L           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         A&B&C           AUSTRALIA OCEANIA           Australia         230V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/50Hz         A&B           New Caledonia <t< td=""><td></td><td></td><td></td></t<>			
Nicaragua   230V/50Hz   I   Panama   110V/60Hz   A&B   Puerto Rico   120V/60Hz   A&B   A&B   Virgin Islands   110V/60Hz   A&B   SOUTH AMERICA   A&B   SOUTH AMERICA   A&B   A&B   SOUTH AMERICA   A&B   A&B   C&B   C&	Mexico		Α
Panama			
Puerto Rico	Nicaragua	230V/50Hz	I
Virgin Islands	Panama	110V/60Hz	
SOUTH AMERICA   Argentina   220V/50Hz   C&I		120V/60Hz	A&B
Argentina         220V/50Hz         C&I           Brazil         110/220V/60Hz         A&B&C           Chile         220V/50Hz         C&L           Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         ABB&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         C.F           Azores         220V/50Hz         C&G </td <td>Virgin Islands</td> <td>110V/60Hz</td> <td>A&amp;B</td>	Virgin Islands	110V/60Hz	A&B
Brazil         110/220V/60Hz         C&L           Chile         220V/50Hz         C&L           Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         ABD&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tonga         240V/50Hz         A&B&E           Tonga         240V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         C.F           Azores         220V/50Hz         C&G           Czechoslovakia         230V/50Hz         C&G			
Chile         220V/50Hz         C&L           Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         ABD&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           AUSTRALIA OCEANIA           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/50Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         C.F           Azores         220V/50Hz         C.K           Channel Islands         240V/50Hz         C.K			
Columbia         110V/60Hz         A&B           Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         ABD&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         C.F           Azores         220V/50Hz         C.K           Channel Islands         240V/50Hz         C.K           Czechoslovakia         230V/50Hz </td <td></td> <td></td> <td></td>			
Ecuador         120/127V/60Hz         A&B           Guyana         240V/60Hz         ABD&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tonga         240V/50Hz         I           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&K           Czechoslovakia         230V/50Hz         C&K           Finland         230V/50Hz			
Guyana         240V/60Hz         ABD&G           Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fijj Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         B.C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&K           Czechoslovakia         230V/50Hz         C&F           France         230V/50Hz         C&F           France         230V/50Hz			
Paraguay         220V/50Hz         C           Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         B.C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         C&F           Denmark         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz </td <td></td> <td></td> <td></td>			
Peru         220V/60Hz         A&B&C           Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           Venezuela         120V/60Hz         I           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE         Ausria         230V/50Hz         I           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         C&F           Denmark         230V/50Hz         C&F           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz			
Surinam         127V/60Hz         C&F           Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz         CFIB&L           AUSTRALIA OCEANIA           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           EUROPE           Ausria         230V/50Hz         I           EUROPE         Ausria         230V/50Hz         B.C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         C&K           Finland         230V/50Hz         C&F           Denmark         230V/50Hz         C&F           France         230V/50Hz         C&F           Greece         220V/50Hz         C&F           Greece         220V/50Hz         C&F           Greenlan			
Uruguay         220V/50Hz         CFIB&L           Venezuela         120V/60Hz           AUSTRALIA OCEANIA           Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         C&F           Greenland         220V/50Hz         C&F			
Venezuela   120V/60Hz			
Australia   230V/50Hz   I			CITBAL
Australia         230V/50Hz         I           Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         C&F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Luxembourg			
Fiji Island         40V/50Hz         I           Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         C&F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Italy         230V/50Hz         C&F           Luxembourg			
Guam         110V/60Hz         A&B           New Caledonia         20V/60Hz         F           New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         C&F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Italy         230V/50Hz         C&F           Luxembourg         220V/50Hz         C&F           Malta			
New Zealand         230V/50Hz         I           Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&F           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Italy         230V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F			A&B
Tahiti         110V/220V/60Hz         A&B&E           Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&F           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F	New Caledonia	20V/60Hz	F
Tonga         240V/50Hz         I           EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Hungary         230V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         G           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F	New Zealand	230V/50Hz	1
EUROPE           Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F	Tahiti	110V/220V/60Hz	A&B&E
Ausria         230V/50Hz         C.F           Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         C&F           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F	Tonga	240V/50Hz	I
Azores         220V/50Hz         B.C.F           Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Belgium         230V/50Hz         E           Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Bulgaria         230V/50Hz         C&F           Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&F           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         T&L           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Channel Islands         240V/50Hz         C&G           Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&E           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Czechoslovakia         230V/50Hz         E           Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&E           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Denmark         230V/50Hz         C&K           Finland         230V/50Hz         C&F           France         230V/50Hz         C&E           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Finland         230V/50Hz         C&F           France         230V/50Hz         C&E           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         G           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
France         230V/50Hz         C&E           Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         G           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Germany         230V/50Hz         C&F           Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Greece         220V/50Hz         A.D.E.F           Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Greenland         220V/50Hz         C&K           Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Hungary         230V/50Hz         C&F           Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Iceland         220V/50Hz         C&F           Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Isle of Mun         230V/50Hz         H&C           Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Italy         230V/50Hz         F&L           Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Luxembourg         220V/50Hz         C&F           Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Malta         240V/50Hz         G           Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Monaco         127V/220V/50Hz         C.D.E.F           Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Netherlands         230V/50Hz         C&F           Norway         230V/50Hz         C&F			
Norway 230V/50Hz C&F			
			C&F
Poland 230V/50Hz C&F	Poland	230V/50Hz	C&F
Portugal 220V/50Hz C&F	Portugal	220V/50Hz	C&F

Country	Volts/Hz	Plug style		
Romania	230V/50Hz	C&F		
Span	230V/50Hz	C&F		
Sweden	230V/50Hz	C&F		
Switzerland	230V/50Hz	J		
England	230V/50Hz	G		
Yugosiavia	220V/50Hz	C&F		
	AFRICA			
Gambia	230V/50Hz	G		
Ghana Guinea	230V/50Hz 220V/50Hz	D&G C.F&K		
Kenya	240V/50Hz	G G		
Lesotho	220V/50Hz	M		
Libya	127V/50Hz	D		
Mali	220V/50Hz	C&E		
Morocco	127V220V/50Hz	C&E		
Rwanda	230V/50Hz	C&J		
Senegal	230V/50Hz	C.D.E&K		
Seychelles	240V/50Hz	G		
Somalia South Afiea	220V/50Hz 220V/230V/50Hz	C		
South Affea	230V/50Hz	M C&D		
Tanzania	230V/50Hz	D&G		
Togo	220V/50Hz	C		
Uganda	240V/50Hz	G		
Zimbabwe	220V/50Hz	D&G		
Algeria	230V/50Hz	C&F		
Angola	220V/50Hz	С		
Benin	220V/50Hz	E		
Burundi	220V/50Hz	C&E		
Cemeroon Chad	220V/50Hz 220V/50Hz	C&E		
Congo	230V/50Hz	D.E.F C&E		
Djibouti	220V/50Hz	C&E		
Egypt	220V/50Hz	C		
Ethiopia	220V/50Hz	D.J.L		
Gabon	220V/50Hz	С		
	AFRICA			
Afghanistan	220V/50Hz	C&FD		
Iran	230V/50Hz	D		
Iraq	230V/50Hz	C.D&G		
Jordan Kuwalt	230V/50Hz	D.F.G.J		
Lebanon	240V/50Hz 230V/50Hz	C&G A.B.C.D.G		
Oman	240V/50Hz	C&G		
Pakistan	230V/50Hz	C.D		
Qutar	240V/50Hz	D&G		
Saudi Arabia	127/220V/50Hz	A.B.F.G		
Syria	220V/50Hz	C.E.L		
Turkey	230V/50Hz	C.F		
United Arab Emirates	220V/50Hz	C.D.G		
ASIA				
Bengal Brunei	220V/50Hz 240V/50Hz	A.C.D.G.K G		
Cambodia	240V/50Hz 230V/50Hz	A.C		
China	220V/50Hz	A.C A.I.G		
Hong Kong	220V/50Hz	D.G		
India	240V/50Hz	C.D.G		
Indonesia	127/230V/50Hz	C.F.G		
Japan	100V/50/60Hz	A.B		
Korea(South)	220V/60Hz	C.F		
Laos	230V/50Hz	A.B.C.E.F		
Macao	220V/50Hz	D.G		
Malaysia Nepal	240V/50Hz 230V/50Hz	G C.D		
Philippines	220V/60Hz	A.B.C		
Singapore	230V/50Hz	G A.B.C		
Sri Lanke	230V/50Hz	D		
Taiwan	110V/160Hz	A.B		
Thailand	220V/50Hz	A.C		
Russian	220V/50Hz	С		
Vietnam	220V/50Hz	A.C.G		

All the data are for reference only, please refer to actual data of country/Area Plug style

Meal case, good to assemble the follwing output sockets:







## **Certificate of conformity**

Product name: see nameplate Product model: see nameplate PASS Factory number: see bar code \

Inspection date: see barcode

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