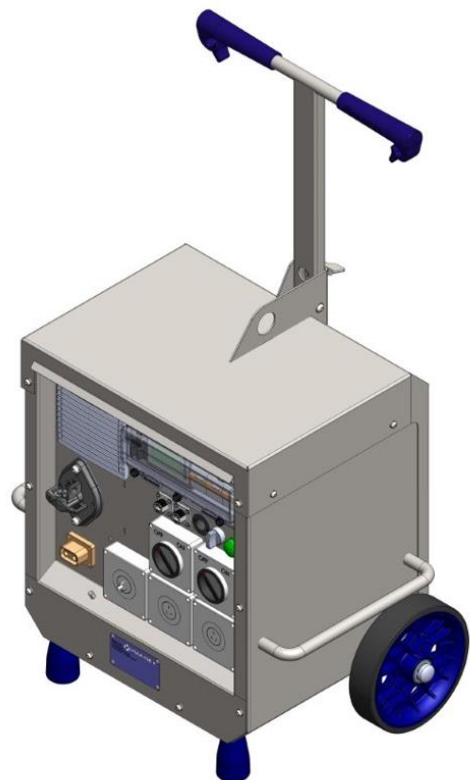




Portable Power Box

PPB-5-5-AU



OPERATOR'S MANUAL

Rev 0725

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INTRODUCTION

Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the Portable Power Box. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact MAKINEX. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

The information contained in this manual was based on machines in production at the time of publication. MAKINEX reserves the right to change any portion of this information without notice.

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Any type of reproduction or distribution not authorised MAKINEX represents an infringement of valid copyrights and will be prosecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

DISCLAIMER

MAKINEX and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty enquiries.

MAKINEX SUPPORT

Refer to contact details on pg. 22

MODEL NO.

PPB-5-5-AU

SERIAL NO.






DATE OF PURCHASE

PURCHASE LOCATION

ABOUT THIS MANUAL

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

KEY TERMS

 READ CAREFULLY	READ CAREFULLY – refers to <i>important information</i> that should be paid careful attention.
 CAUTION	CAUTION - indicates a potential hazardous situation which, if not avoided, <i>may</i> result in minor or moderate injury
 WARNING	WARNING – indicates a potentially hazardous situation which, if not avoided, <i>could</i> result in death or serious injury
 DANGER	DANGER – indicates an imminently hazardous situation which, if not avoided, <i>will</i> result in death or serious injury
 PROHIBITED	PROHIBITED – identifies actions that <i>should never</i> be carried out by anyone interacting with the machine.

These safety warnings do not eliminate all possible hazards that could occur therefore it is essential to use common sense and to strictly follow any instructions to prevent accidents.

SAFETY INFORMATION



Read this manual **thoroughly** before operating your Portable Power Box. Failure to follow instructions could result in serious injury or death



RISK OF ELECTRICAL SHOCK

Electrical shock can cause burnt marks, cardiac arrest or even death.

- **ALWAYS** switch off the inverter and all the circuit breakers when the Portable Power Box is not in use.
- **ALWAYS** unplug all external connection cables or wires before attempting to clean the Portable Power Box.
- **ALWAYS** connect the earth wire to ground during operation.
- **ALWAYS** keep children and pets away from the Portable Power Box.
- **DO NOT** alter or disassemble the Portable Power Box.
- **DO NOT** operate the machine with missing or broken parts.
- **DO NOT** operate the product if your hands are wet.
- **DO NOT** operate the product when fatigued or under the influence of alcohol or drugs.
- In case of fire, use dry powder fire extinguishers. **DO NOT** use water fire extinguishers, which may cause electrical shock.

EMERGENCY INFORMATION

In the event of an emergency follow the steps below:

1. To disable the product, turn off the on/off switch. See picture below. This will cut off the power to the inverter immediately.



2. Further to the above, switch off all the circuit breakers (push down) and isolator. The isolator is shown below in the “ON” position. Rotate anti-clockwise 90 degrees to turn to “OFF” position.




Always ensure all safety information found in this manual, page 6, is observed.

SAFETY DECALS



**LIFTING
POINT**

<p>WARNINGS</p> <p>① MULTIPLE BATTERY SYSTEMS TURN OFF ALL BATTERY SYSTEM ISOLATORS TO ISOLATE EQUIPMENT</p> <p>② BATTERY SYSTEM DC ISOLATORS DO NOT DENERGISE THE BATTERY SYSTEM AND BATTERY SYSTEM CABLING</p> <p>SHUTDOWN PROCEDURE</p> <p>① TURN "ON/OFF" SWITCH TO OFF</p> <p>② TURN BATTERY ISOLATOR SWITCH TO OFF</p> <p>BATTERY SYSTEM SHORT CIRCUIT CURRENT _____ A MAX D.C. VOLTS _____ V HAZARDOUS DC VOLTAGE</p>	<p>DANGER</p> <p> TOXIC FUMES</p> <p>FIRE WILL CAUSE TOXIC FUMES</p>
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MAKINEX®
RENEWABLES

PPB⚡5
5kW | 5kWh | 1P

PPB⚡5
5kW | 5kWh | 1P



MAKINEX® RENEWABLES
RENEWABLES



UNIT MUST BE TURNED
ON TO CHARGE



OFF ON

USB OUTPUT

AC OUTPUTS

PV CHARGING INPUT

BATTERY ISOLATOR

BATTERY MONITOR

CB PANEL

AC CHARGING INPUT

PV INLET AC INLET OUTLET 3 OUTLET 2 OUTLET 1 AC MAIN

PORTABLE POWER BOX

PPB⚡5
5kW | 5kWh | 1P

**MAKINEX®**

TURN-ON PROCEDURE
1 INSURE BREAKERS ARE ALL ON
2 TURN BATTERY ISOLATOR SWITCH TO ON
3 TURN ON/OFF SWITCH TO ON
4 WAIT 12 SECONDS FOR THE INVERTER TO POWER UP

SHUTDOWN PROCEDURE
1 TURN ON/OFF SWITCH TO OFF

WHEN TRANSPORTING
1 TURN ON/OFF SWITCH TO OFF
2 TURN BATTERY ISOLATOR SWITCH TO OFF

**WARNINGS**
1. MAINTAIN ALL SYSTEMS
2. TURN OFF ALL BATTERY SYSTEM ISOLATORS TO
ISOLATE EQUIPMENT
3. BATTERY SYSTEM DC ISOLATORS
4. BATTERY SYSTEM CABLES
5. BATTERY SYSTEM CABLES
6. BATTERY SYSTEM CABLES

SHUTDOWN PROCEDURE
1. TURN "ON/OFF" SWITCH TO OFF
2. TURN BATTERY ISOLATOR SWITCH TO OFF

BATTERY SYSTEM
SHORT CIRCUIT CURRENT
MAX DC VOLTS
MAX DC VOLTAGE

**DANGER**
TOXIC FUMES

FIRE WILL CAUSE TOXIC FUMES



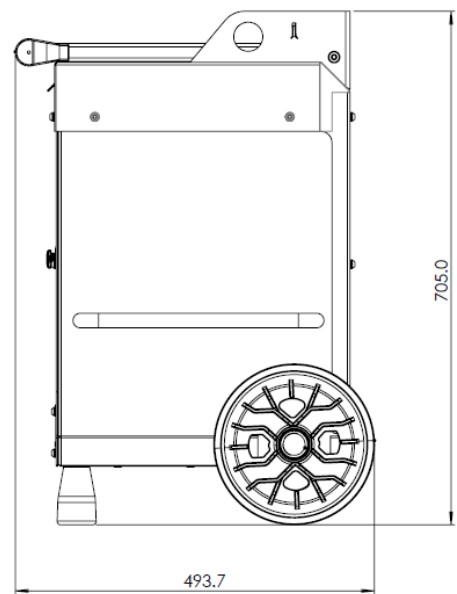
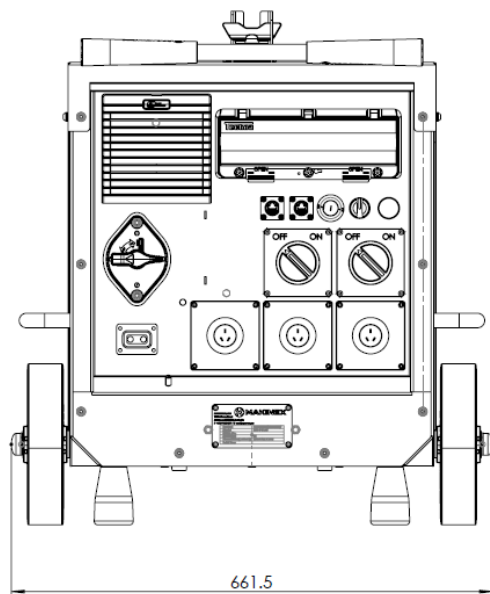
PRODUCT DESCRIPTION AND SPECIFICATION

The Makinex PPB-5-5-AU is the future of portable temporary power. It's small, emits no fumes, produces little noise and is safe for indoors or confined spaces. Built with safety in mind, the unit is complete with circuit breaker protection and offers the latest technology in battery storage.

The unit is easily manoeuvrable with a durable frame; it's weather resistant and requires minimal maintenance. Designed for inductive load environments in construction, hire, commercial and film / events with products such as drop saws, cement mixers, brick saws, misting stations, coffee machines, lights & fans.

MACHINE SPECIFICATIONS	
MODEL	PPB-5-5-AU
WEIGHT	95kg
WIDTH	662 mm
HEIGHT	705 mm (handle folded)
LENGTH	494 mm
RATED POWER	5kW
OUTPUT	230V at 15A, 5V at 3A if using USB
AC CHARGING	230V at 10A (Trickle Charge)
AC CHARGING TIME	5 kWh – 2.5 hrs using 10A
PV CHARGING	Max Input Voltage 500V DC 18A
BATTERY CAPACITY	4.8kWh, 100Ah
BATTERY VOLTAGE	48V ~ 56V
WORKING ENVIRONMENT TEMPERATURE	0°C ~ 40°C
STORAGE AMBIENT TEMPERATURE	30°C

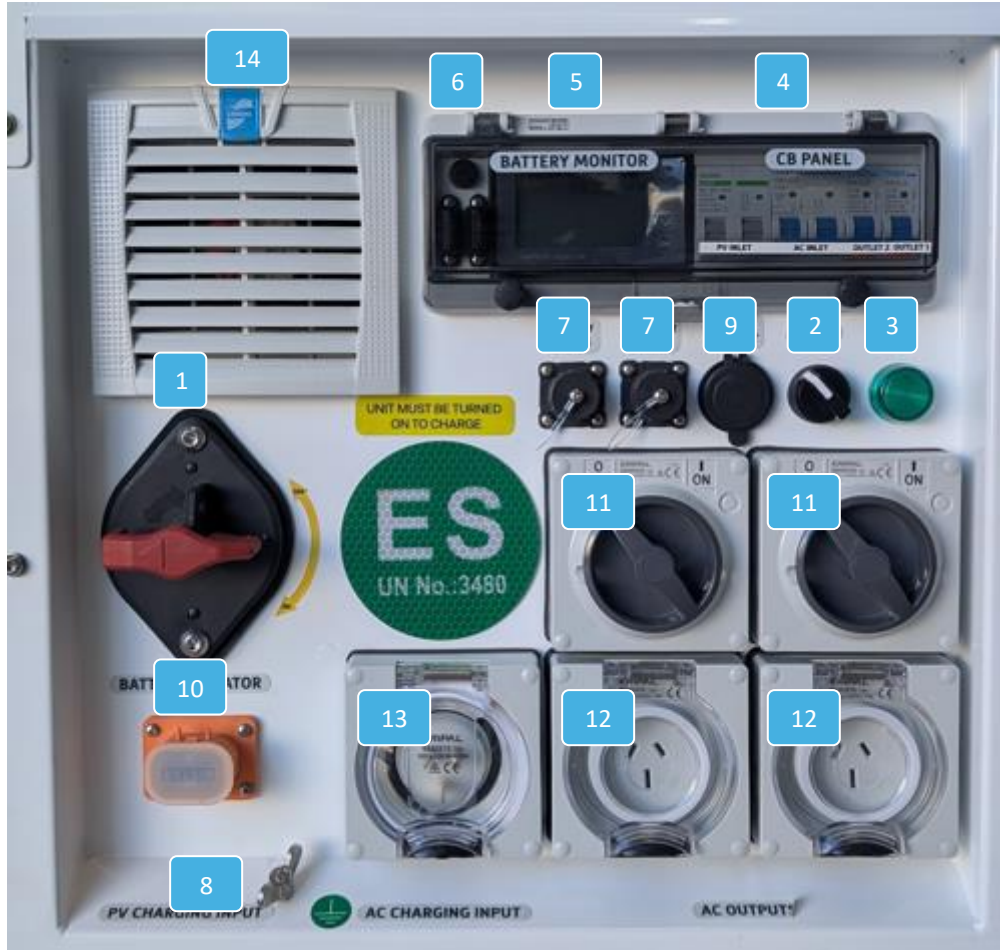
OVERALL MACHINE DIMENSIONS



OPERATING YOUR PORTABLE POWER BOX

1. CONTROL INTERFACE

Below is the control interface of the Makinex Portable Power Box



1	ON/OFF Switch	8	Earth Bonding Connection Point
2	Battery DC ON/OFF Isolator Switch	9	USB Outlets (Type A + Type C)
3	Unit Indication LED Lamp	10	PV Inlet Socket Inlet
4	Circuit Breakers	11	AC Isolator Switch 2 Pole 230VAC 20A
5	Battery Monitor	12	AC Outlets 3 Pin 230VAC 15A
6	12VDC System Fuses	13	AC Charging Input 230VAC 10A
7	RJ45 Connection to Battery	14	Cooling Fan

2. STARTUP OPERATION

- 2.1 Ensure all breakers (14) are switched ON.
- 2.2 Turn the “On/Off” switch (1) to the ON position.
- 2.3 Turn the “Battery Isolator” (12) switch to the ON position.
- 2.4 Wait for display to turn on and let the machine warm up for 1 minute.
- 2.5 The PPB can now be used by plugging devices into outlets (7).

3. SHUTDOWN OPERATION

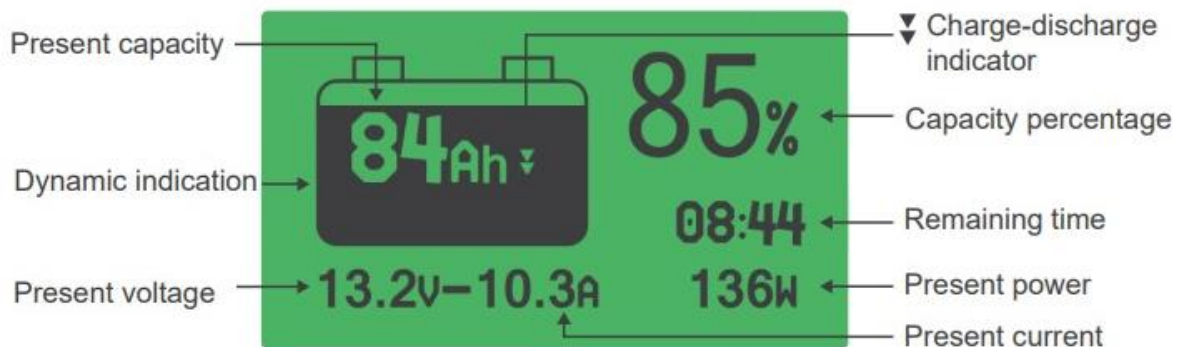
- 3.1 Turn the “On/Off” switch (1) to the OFF position.
- 3.2 Unplug outlet sockets (7).

4. WHEN TRANSPORTING

- 4.1 Turn the “On/Off” switch (1) to OFF position.
- 4.2 Turn off all breakers (14) and switch “Battery Isolator” (12) to OFF position.

5. BATTERY MONITOR

5.1 Interface description



For example, the below LCD display means:



- Battery capacity is 100Ah and it is 100% charged.
- The present battery voltage is 51.4V.
- The present current is -0.41A.

Note: The “-” symbol means amp draw from batteries. In other words, batteries are powering loads connected to the Portable Power Box.

- Present power consumption is 21.1watt.
- Remaining time is 99 hours and 58 minutes.

Note: It means with the present power consumption, the battery can last for 99 hours and 58 minutes.

6. CHARGING THE PRODUCT (AC INPUT)

6.1 Connect the charging cable to the 230V Inlet Socket on the Makinex Portable Power Box and the AC wall outlet.

6.2 Turn the “Battery Isolator” (12) switch to the ON position.

6.3 Turn on AC Inlet Circuit Breaker.

6.4 Turn the “On/Off” switch to the ON position.

6.5 Battery is now being charged.

The LCD display on the Battery Monitor will be blinking during charging operation.

You will also see the real time battery voltage and charging current on the LCD display.

6.6 When charging is completed, carefully reverse the connection process.

7. CHARGING THE PRODUCT (PV INPUT)

7.1 If the PV system incorporates an extraneous conductive frame/ housing and allows an earth connection and/ or point, connect a bonding cable between the PPB “Earthing Bonding Connection Point” (8) and the extraneous conductive part of the PV system.

7.2 Connect the PV charging cable to the PV Inlet Socket (10) on the Makinex Portable Power Box.

7.3 Turn the “Battery Isolator” (12) switch to the ON position.

7.4 Turn the “On/Off” switch to the ON position.

7.5 Turn on PV Inlet Circuit Breaker.

7.6 Battery is now being charged.

The LCD display on the Battery Monitor will be blinking during charging operation.

You will also see the real time battery voltage and charging current on the LCD display.

7.7 When charging is completed, carefully reverse the connection process.

8. TRANSPORTING THE PRODUCT

8.1 Lifting Point – Use the lifting eye on the top cover of the PPB to lift the unit. The label adjacent to the lifting eye indicates the total weight of the unit. Please ensure the lifting equipment used is rated for this weight.

8.2 Tie Down Points – Use the front and rear hooks and the handle tube on the top cover to tie the unit down.

8.3 Winching points – Use only the front and rear hooks to winch the unit.

8.4 Forklift – The PPB cannot be moved using a forklift except using the lifting eye with a jib/hook attachment on the tines.



WARNING – Do not lift the PPB by placing forklift tines underneath the PPB. This will damage the base.



**LIFTING EYE IS
FOR LIFTING
ONLY**

**HANDLES AT
FRONT AND REAR
FOR TIE DOWN**

MAINTENANCE

GENERAL MAINTENANCE

Always keep the unit clean. Clean the unit with cloth. Please DO NOT use pressure cleaner. Avoid exposing the product to heavy rain.

The Portable Power Box's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the Portable Power Box as instructed in this manual including storage.

STORAGE

Store the unit in a clean, dry and cool area. Keep the unit away from children and pets. The maximum storage period at room temperature is 6 months, every 6 months the unit must be used, and recharged when necessary.

Before storing, it is recommended to charge battery to 40-70% and voltage measured to be greater than 45V.

During storage, it is required that the battery be inspected monthly, if battery voltage to drop below 45V, it must be charged according to the charging procedure mentioned in "CHARGE THE BATTERY" section.

CHARGE THE BATTERY

When charging the unit, connect a charging cable from wall socket to the charging inlet. Refer the charging specifications to "Machine Specification" section.

After storage, inspect unit and if battery voltage is above 45V, connect to wall socket and charge normally. If battery voltage is below 45V, discharge battery to the cutoff voltage, then recharge. Validate battery voltage after charging.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
No LCD display after DC isolator switched on for 5 minutes.	Unsuccessful system boot-up	Switch off the DC isolator and switch it back on
	Battery fault	Battery fault is rare. Access battery and further diagnose required (1)
	Loose internal wiring	The occurrence is rare. Open the unit cover and check internal wiring (1)
	Outlet circuit breakers are OFF.	Turn on the circuit breakers
	Battery is flat.	Check the battery monitor display for the battery capacity percentage. Recharge battery
	On/off switch is OFF	Turn on the on/off switch
Not able to charge the unit.	Wall socket switch is OFF.	Turn on the wall socket switch
	230V AC Inlet circuit breaker is OFF.	Turn on the circuit breakers
	Battery DC Isolator switch is OFF	Turn on the DC Isolator switch
	On/off switch is OFF	Turn On the on/off switch
	Battery fault	Battery fault is rare. Access battery and further diagnose required (1)
Inverter Fault (alarm warning).	Inverter module malfunction	Contact Makinex
	DC voltage is too low (battery is flat).	Charge the unit
	Pre-charging unit fault (main contactor not closed)	Contact Makinex
(1) operations which must be carried out at an authorised service centre		

LIMITED WARRANTY

To take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the maintenance schedule (contained in relevant owner's manual supplied with this product), by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified mechanic or electrician (depending on the mechanical or electrical requirement) and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

To ensure your safety, we strongly recommend that you only use an authorised MAKINEX dealer for servicing. Only authorised MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

MAKINEX warrants each new Portable Power Box to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX products distributed by us and by our authorised MAKINEX dealers.

WARRANTY: (Ex-factory/ Reseller premise)

- 1 year warranty on the inverter and the batteries.
- 1 year warranty on the outlet panel, enclosures and wheels.

Note: Maintenance is not warranty. Excludes service and consumables required at scheduled maintenance intervals)

WARRANTY EXCLUSIONS

This warranty does not cover the following repairs and equipment:

NORMAL WEAR

This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

INSTALLATION, USE, AND MAINTENANCE

This warranty will not apply to parts and/or labour if this portable power box is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond its limits, modified, installed improperly or connected incorrectly.

OTHER EXCLUSIONS

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original MAKINEX parts.
- Maintenance service costs
- Freight costs

OWNER'S RESPONSIBILITY UNDER LIMITED WARRANTY:

Strict adherence to the maintenance checks and with **proof of scheduled maintenance history** is required by an authorised agent or qualified mechanic. It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for repair as applicable. Maintenance services are not covered under warranty.

Claim Procedure:

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (parts & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premise to be determined by the Manufacturer.
- Transportation charges on product submitted for repair under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.
- Warranty repair will only be carried out by our representatives and not via client's choice of repairer. We will not accept back charges for any work not carried out by our representatives or accept any charges due to equipment being un-operational for any reason even during its warranty period.

CONTACT INFORMATION

For sales, service, warranty, and parts for all MAKINEX products; please refer below.

	SALES, SERVICE, SPARE PARTS & WARRANTY
AUSTRALIA	<p><u>SALES</u></p> <p>TEL 1300 795 953 or +61 2 9460 8071 WEB www.makinex.com.au</p> <p><u>SERVICE, SPARE PARTS & WARRANTY</u></p> <p>EMAIL service@makinex.com.au</p>
USA	<p><u>SALES</u></p> <p>TEL +1 855-625-4639 WEB www.makinex.com</p> <p><u>SERVICE, SPARE PARTS & WARRANTY</u></p> <p>EMAIL service@makinex.com</p>

Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.



PRODUCT RISK / HAZARD ASSESSMENT TABLE						
Product Name: Portable Power Box Gen 2_PPB-5-5-AU / PPB-5-10-AU		Assessment By: Thomas French / Hayden Ellis				
Manufacturer: MAKINEX PTY LTD		Document Revision Number: 1				
Operator Competency: PLANT LICENSE NOT REQUIRED		19-Jul-24				
HAZARD	LIKELIHOOD	CONSEQUENCE	RISK	CONTROL ACTION		
CRUSHING DUE TO - WHEEL RUNNING OVER LIMB	3	UNLIKELY	4	NEGLIGIBLE	5	LOW
						ENSURE APPROPRIATE SAFETY APPAREL IS WORN
SHEARING INJURY DUE TO - DROPPED DURING LIFTING	3	UNLIKELY	2	MAJOR	3	MEDIUM
						FREQUENT INSPECTION OF LIFTING EYE AND PROPER LIFTING EQUIPMENT AND TECHNIQUE
ENTANGLEMENT DUE TO - ELECTRICAL LEADS	3	UNLIKELY	3	MINOR	4	MEDIUM
						SITE SAFETY OFFICER TO INSPECT PLACEMENT OF LEADS
STRIKING DUE TO - PRODUCT ROLLING ON SLOPE / WIND	3	UNLIKELY	2	MAJOR	3	MEDIUM
						ENSURE RUBBER FEET ARE FACING DOWNWARD ONTO SLOPE TO PROVIDE BEST BRAKING GRIP
PRODUCT NOT SECURED IN VEHICLE DURING TRANSPORT DROPPED DURING LIFTING	3	UNLIKELY	2	MAJOR	3	MEDIUM
						ENSURE PRODUCT IS PROPERLY SECURED IN VEHICLE WITH TIE-DOWN STRAPS / ROPES ETC.
						FREQUENT INSPECTION OF LIFTING EYE AND PROPER LIFTING EQUIPMENT AND TECHNIQUE
PINCH DUE TO - HANDS OR FINGERS CAUGHT IN LIFTING EYE WHEN ATTACHING HOOK	3	UNLIKELY	4	NEGLIGIBLE	5	LOW
						ENSURE UNIT IS USED ON FLAT, LEVEL SURFACE. ENSURE PRODUCT IS PROPERLY SECURED DURING TRANSPORT
SKIN OR LIMB CAUGHT IN BETWEEN PRODUCT AND FIXED OBJECT	3	UNLIKELY	4	NEGLIGIBLE	5	LOW
SLIP / TRIP / FALL DUE TO - ELECTRICAL LEADS	2	LIKELY	3	MINOR	3	MEDIUM
						SITE SAFETY OFFICER TO INSPECT PLACEMENT OF LEADS
ELECTROCUTION DUE TO - WET OUTLET SOCKETS	3	UNLIKELY	2	MAJOR	3	MEDIUM
						FREQUENT INSPECTION OF ALL ELECTRICAL EQUIPMENT INCLUDING MAINS POWER LEADS WITH ALL EQUIPMENT TESTED AND TAGGED. PRODUCT MUST ALWAYS BE EARTHED
EXPOSED / DAMAGED LEADS	3	UNLIKELY	2	MAJOR	3	MEDIUM
						FREQUENT INSPECTION OF ALL ELECTRICAL EQUIPMENT INCLUDING MAINS POWER LEADS WITH ALL EQUIPMENT TESTED AND TAGGED. PRODUCT MUST ALWAYS BE EARTHED

NOTES

THIS ITEM OF PLANT IS DESIGNED AND MANUFACTURED AS A CHARGING DEVICE FOR TESTED AND TAGGED EQUIPMENT ONLY.
THE PLANT IS NOT DESIGNED FOR, OR TO BE USED AS A DEVICE FOR POWERING EXTERNAL EQUIPMENT OR PLUGGING EXTENSION LEADS.

THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:

- 1. HAZPAK PRODUCED BY THE WORK-COVER AUTHORITY AND
- 2. THE AUSTRALIAN STANDARDS 4024.1:4/5 - 1998 "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES"

THE TERMS "VERY LIKELY", "LIKELY", "UNLIKELY", "VERY UNLIKELY" REFER TO PROBABILITY OF AN EVENT HAPPENING, BUT ARE QUALITATIVE AND BASED ON BEST ESTIMATION DUE TO CONSULTATION AND EXPERIENCE. RISK LEVEL IS DETERMINED USING THE RISK TABLE AS SUGGESTED IN HAZPAK. INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW

CONSEQUENCE TERMINOLOGY IS DEFINED BY THE WORK-COVER AUTHORITY AS THUS:
NEGLIGIBLE = ABLE TO BE TREATED USING FIRST AID
MINOR = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF
MAJOR = NORMALLY IRREVERSIBLE INJURIES
FATALITY

MAKINEX PTY LTD
PH: (02) 1300795953

