

DECLARATION OF CONFORMITY

1. **Product model:** SOLAR120/ SOLAR200

2. **Name and address of the manufacturer or his authorised representative:**



NAP BRANDS LTD. Office 20, Fleming Court Business Centre,
Leigh Road, Eastleigh, Hampshire SO50 9YN
Tel: +44 (0)23 8064 9650. Email: sales@napbrands.co.uk

3. **This declaration of conformity is issued under the sole responsibility of the manufacturer.**

4. **Object of the declaration:**

Equipment: Portable Folding Solar Panel
Brand name: IMPAX
Model/type: SOLAR120/ SOLAR 200

5. **The object of the declaration described above is in conformity with the relevant statutory requirements:**

Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
Regulations 2012

6. **References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:**

EN 55032:2015+AC:2016-07	IEC 62321-4:2013
EN 55035:2017+AC:2019-11	IEC 62321-5:2013
EN 61000-3-2:2019	IEC 62321-6:2015
EN61000-3- 3:2013+A1:2019	IEC 62321-7-1:2015
IEC 62321-3-1:2013	IEC 62321-8:2017

7. **The person authorized to compile the technical file:**

Name: Robert Redfern
Address: Nap Brands Ltd. Office 20, Fleming Court Business Centre, Leigh Road, Eastleigh,
Hampshire SO50 9YN

Signed for and on behalf of:

The Manufacturer

Robert Redfern, Technical Manager
01/01/2023

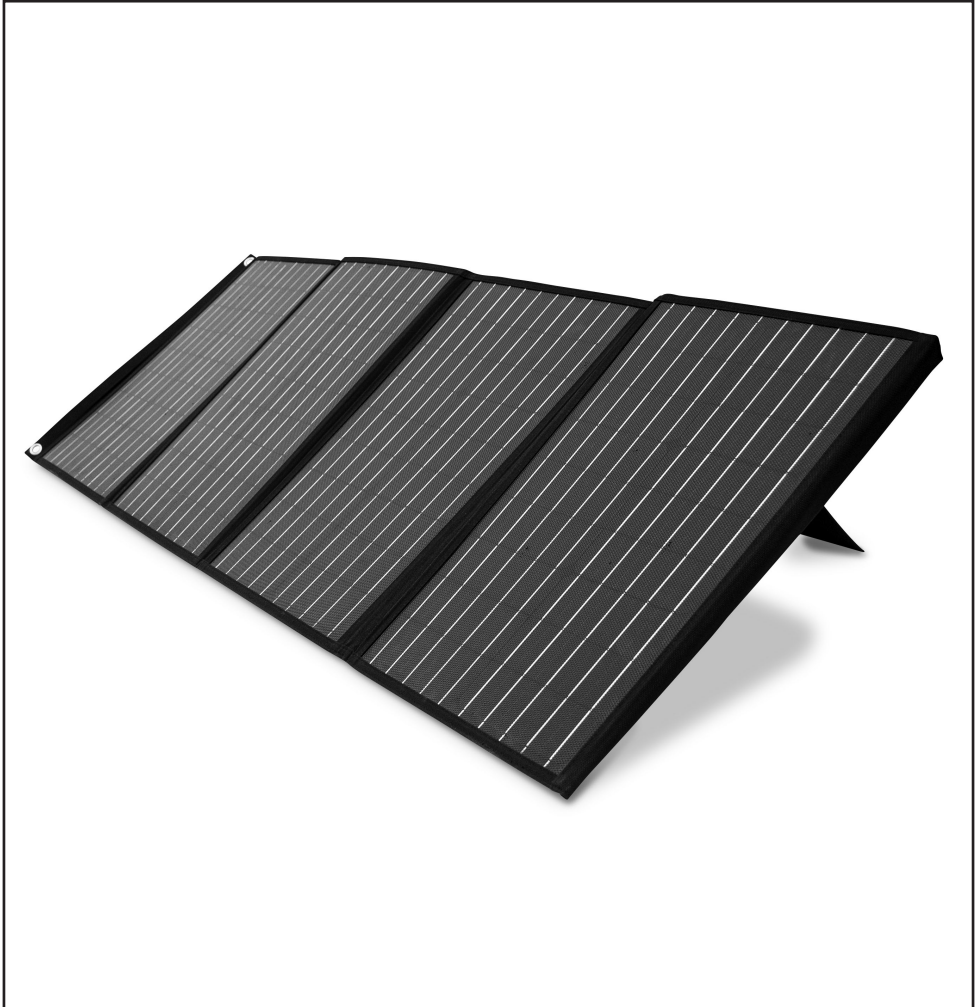
A handwritten signature in black ink, appearing to read 'Robert Redfern'.

UK
CA23



PORTABLE FOLDING SOLAR PANEL

SOLAR120/ SOLAR200



Always Read Instruction Manual
Retain for Future Reference

CERTIFICATE OF GUARANTEE

This product is guaranteed for a period of 1 Year, with effect from the date of purchase and applies only to the original purchaser. This guarantee only applies to defects arising from, defective materials and or faulty workmanship that become evident during the guarantee period only and does not include consumable items. The manufacturer will repair or replace the product at their discretion subject to the following. That the product has been used in accordance with the guidelines as detailed in the product manual and that it has not been subjected to misuse, abuse or used for a purpose for which it was not intended. That it has not been taken apart or tampered with in any way whatsoever or has been serviced by unauthorised persons or has been used for hire purposes. Transit damage is excluded from this guarantee, for such damage the transport company is responsible. Claims made under this guarantee must be made in the first instance, directly to the retailer within the guarantee period. Only under exceptional circumstances should the product be returned to the manufacturer. In this case it shall be the consumer's responsibility to return the product at their cost ensuring that the product is adequately packed to prevent transit damage and must be accompanied with a brief description of the fault and a copy of the receipt or other proof of purchase. The manufacturer shall not be liable for any special, exemplary, direct, indirect, incidental, or consequential loss or damage under this guarantee. This guarantee is in addition to and does not affect any rights, which the consumer may have by virtue of the Sale of Goods Act 1973 as amended 1975 and 1999.

INTRODUCTION

Thank you for purchasing this product which has passed through our extensive quality assurance process. Every care has been taken to ensure that it reaches you in perfect condition. However, in the unlikely event that you should experience a problem, or if we can offer any assistance or advice please do not hesitate to contact our customer care department. For details of your nearest customer care department please refer to the telephone numbers at the back of this manual.

Safety First

Before attempting to operate this product the following basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. It is important to read the instruction manual to understand the application, limitations and potential hazards associated with this product.

HELPLINE & SPARE PARTS

In the unlikely event of a defect occurring please contact our Helpline.

Office hours: Monday - Friday 9:00am – 5:00pm.

Telephone Number 0344 264 2485

IMPORTANT SAFETY INFORMATION

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



SAFETY ALERT SYMBOL. Indicates caution, warning or danger. May be used in conjunction with other symbols or pictures.

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Do not attempt to operate this product until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.

Due to continued product refinement policy, product features and specifications can and will change without notice. Check current features and specifications with your retailer.

INTENDED USE

The Impax SOLAR120/ SOLAR200 portable folding solar panel works with all Impax DISCOVERY power stations and many other power stations with the same solar connector type.

The intergrated charge controller can be used to charge mobile phones, MP3, PAD or other USB charging devices.

The Impax Solar120/ Solar200 can also chain other solar panels that have the same nominal output voltage power in parallel.

SAFETY INSTRUCTIONS

WARNING



The warnings in this manual cannot cover all possible conditions or situations that could occur. Use this product with common sense and caution. Always be aware of the environment and ensure that the product is used in a safe and responsible manner. Do not operate or assemble the solar panel until reading this manual and understanding how it works.

Use the solar panel to charge proper equipment. Do not attempt to force it to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will be a safer experience and do the job better at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.

Do not flex or bend the solar panels.

Do not dismantle or drop the solar panels.

Do not scratch the surface of the solar panels with sharp objects.

Do not step on or place heavy objects on the solar panels.

Do not immerse the solar panel in water or other liquid. Try to avoid exposure to rain and moist environments.

Do not clean the solar panel with water, gently wipe it with a damp cloth.

Do not use or store the solar panels near open flames or flammable materials.

Do not let strong corrosive substances come into contact with the solar panels.

The output circuit of the solar panels must be correctly connected to the equipment. Ensure that there is no gap between the connector and the insulated connector. If there is a gap, sparks or electrical shocks can occur.

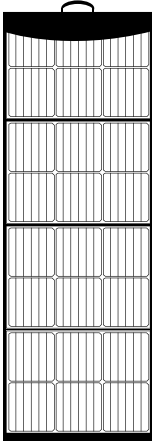
Check the connection status of each component, including cables, wires and plugs.

Do not modify this product in any way. Unauthorised modification may impair function and safety and can affect the life span of the product and invalidate the guarantee.

PACKAGE LIST (SOLAR120)



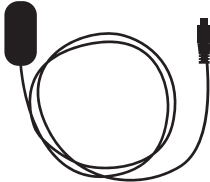
1 x User Manual



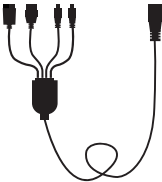
120W Portable Folding Solar Panel



1 x USB-A, 1 x USB-C
(Equipped to Solar Panel)



1 x DC7909 Cable
(Equipped to Solar Panel)

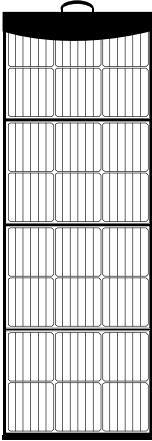


1 x DC7909 to DC5521 /
DC5525 / Anderson / XT60

PACKAGE LIST (SOLAR200)



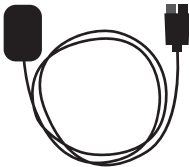
1 x User Manual



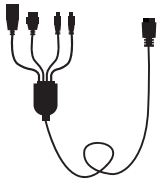
200W Portable Folding Solar Panel



1 x USB-A, 1 x USB-C
(Equipped to Solar Panel)

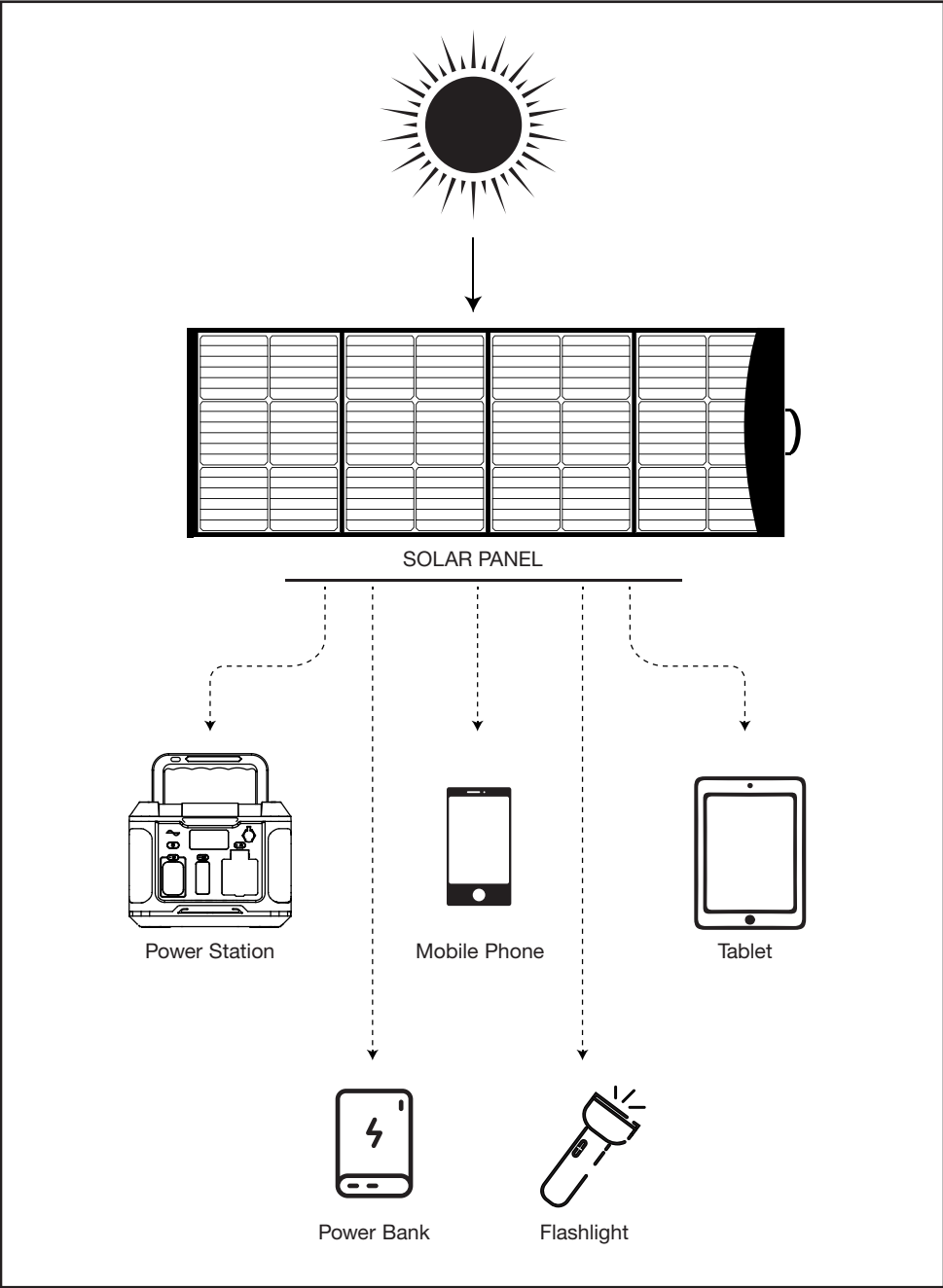


1 x Anderson Cable
(Equipped to Solar Panel)



1 x Anderson to DC5521 /
DC5525 / DC7909 / XT60

HOW IT WORKS



UNPACKING



CAUTION! This packaging contains sharp objects. Take care when unpacking. Remove the machine, together with the accessories supplied, from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete. If any parts are found to be missing, the machine and

its accessories should be returned together in their original packaging to the retailer.

Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means. Do not let children play with empty plastic bags due to the risk of suffocation.

SETTING UP THE SOLAR PANEL

Unclip the two buckles on the front of the solar panel and unfold outwards carefully taking care not to flex or bend the panels.

Once the solar panel has been fully opened, extend the two stands on the rear of the product to support the solar panel.

Locate the solar panel in a clear sunlit area free from over hanging branches or obstructions.

Place the solar panel kit facing the sun.

The output power of the solar panel is related to the intensity and angle of sunlight. A 90° angle with sunlight has the best charging efficiency.

If the stands are positioned at their maximum adjustment the angle is ideal for UK / European use for Spring, Summer and Autumn.

If you intend to use the solar panel in the Winter the angle of the solar panel should be steeper.

What you are trying to achieve is a right angle strike from where the sun is to the solar cell surface.

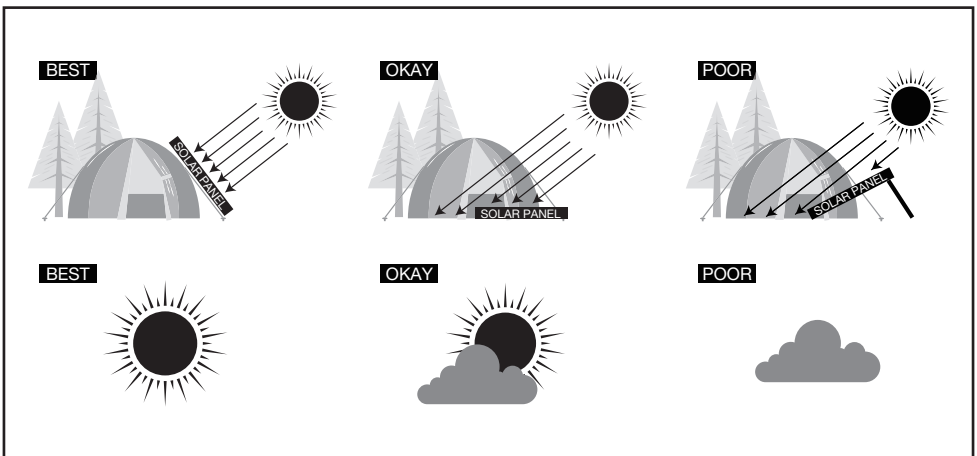
Solar production will always be at its best during the hours of 10am and 3pm so ensure the solar panel is facing south during this period.



WARNING! The solar panel can become very hot whilst in direct sunlight, please keep out of reach of children.

Do not place heavy objects on solar panel.

Do not place the phones ,tablets or cameras in direct sunlight or in an overheated environment. Place the device in the pocket of the solar panel or place it in the shade.



CONNECTING THE SOLAR PANEL TO DEVICES

Unzip the pouch on the back of the solar panel to access the USB charge controller. Unwind the cable and run this close to the device you wish to charge.

Solar120

Connect the USB charge controller DC7909 cable to the DC7909 to Anderson + XT60 + DC5525 + DC5521 cable.

Connect the device you wish to be charged to one of the following cables:

- Anderson
- XT60
- DC5525
- DC5521

You can also charge devices by plugging directly into the USB charge controllers USB-A and USB-C sockets.

Solar200

Connect the USB charge controller Anderson cable to the Anderson to DC7909 + XT60 +

DC5525 + DC5521 cable.

Connect the device you wish to be charged to one of the following cables:

- DC7909
- XT60
- DC5525
- DC5521

You can also charge devices by plugging directly into the USB charge controllers USB-A and USB-C sockets.

In theory, the solar panel can charge all kinds of batteries. It depends on the charging circuit of the batteries. Please make sure that the charging voltage of the solar panel matches the input voltage of your batteries.

Note: The red part of the Anderson plug is positive, and the black part is negative.

Please connect positive to positive and negative to negative to ensure using correctly.

TECHNICAL SPECIFICATION (SOLAR120)

Peak Power:	120W
DC Output:	18V / 6.67A Max.
USB-A:	5V, 3A / 9V, 2.5A / 12, 2A Max.
USB-C:	5V, 3A / 9V, 3A / 12, 3A / 15V, 3A Max.
Cell Type:	Monocrystalline x 4pcs
Dimensions (Unfolded):	1615 x 380 x 25mm
Dimensions (Folded):	520 x 380 x 50mm
Weight:	4.26kg (Excluding accessories)

TECHNICAL SPECIFICATION (SOLAR200)

Peak Power:	200W
DC Output:	18V / 11.12A Max.
USB-A:	5V, 3A / 9V, 2.5A / 12, 2A Max.
USB-C:	5V, 3A / 9V, 3A / 12, 3A / 15V, 3A Max.
Cell Type:	Monocrystalline x 4pcs
Dimensions (Unfolded):	2410 x 530 x 25mm
Dimensions (Folded):	600 x 530 x 70mm
Weight:	7.34kg (Excluding accessories)

FREQUENTLY ASKED QUESTIONS

Is the Solar Panel waterproof?

Both sides of the solar panel are protected well from splashing water. However, the USB charge controller connected to the bag is not waterproof. Do not immerse the solar panel in water, and we do not recommend using the solar panel in rain and moist environments.

Is the product chainable with other solar panels?

Yes. You can chain other solar panels that have the same nominal output voltage power in parallel. Please note that the superimposed current cannot exceed the current that the connecting cable and plugs can bear. The guarantee does not cover any property loss caused by misoperation when chaining solar panels together.

What if the USB charge controller is not charging my devices?

1. Check the manual of your device to ensure the input voltage fits 5V or supports QC3.0 & PD.

2. Cloudy weather and indirect sunlight may cause fluctuations in the current. This in turn may hinder or prevent charging. Place the solar panel in direct sunlight or wait for the weather to become clear.
3. Wipe the panels clean with a damp cloth between usages to prevent scratching.
4. Avoid exposure to fire, water and chemical liquids.

If it is partially cloudy or shady will the solar panel still work?

Yes, although the charging efficiency will be low causing prolonged charging time.

Will this solar panel charge a powerstation?

Yes. The solar panel can charge the Impax Discovery series of power stations and also the products of other brands with appropriate power.

Note: Charging power stations which have excessive power will lead to longer charging times.

MAINTENANCE

We recommend that you carry out the following maintenance to ensure optimal performance.

Clean the flexible surface of the solar panel with a damp cloth when necessary. DO NOT use abrasive cleaners or solvents. Avoid using sharp and/or hard cleaning tools. It is recommended that you only clean in the morning and evening when the sun is weak.

Inspect electrical and mechanical connections every six months to confirm that they are clean, secure and undamaged.

Prevent leaves and other objects from covering the surface of the solar panel. Partially shading the solar panel will not only affect the efficiency of power generation, but also may cause excessive current and burn out the components.

STORAGE










Always keep your foldable solar panel in a cool, dry place. Foldable Solar Panels are intended for occasional outside use, not permanent outdoor installations.

The panels are not waterproof and, if at all possible, should not be left damp. If it rains, wipe the panels dry and let the fabric air dry before folding.

To avoid damage, if the panel is damp, allow it to completely dry before folding and storing it. Always keep the Foldable Solar Panel in a cool, dry place.

SYMBOLS

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOLS	DESIGNATION/EXPLANATION
	Do not expose to rain or use in damp locations.
	To reduce the risk of injury, the user must read and understand the operator's manual before using this product.
	Conforms to relevant safety standards.
	Precautions that involve your safety.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Do not immerse in water.
	Avoid extreme temperatures.
	Do not damage in any way.
	Do not disassemble.

ENVIRONMENTAL PROTECTION

Information for (private householders) for the environmentally responsible disposal of Waste Electrical and Electronic Equipment (WEEE)



This symbol on products and or accompanying documents indicates that used and end of life electrical and electronic equipment should not be disposed of in household waste. For the proper disposal, treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your retailer upon the purchase of an equivalent new product. Disposing of this product correctly will help to save valuable

resources and prevent any potential adverse effects on human health and the environment which could otherwise arise from inappropriate waste disposal and handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste in accordance with national legislation.

FOR BUSINESS USERS IN THE EUROPEAN UNION.

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union.

This Symbol is only valid in the European Union.

If you wish to dispose of this product, please contact your local authorities or dealer and ask for the correct method of disposal.

EC DECLARATION OF CONFORMITY

1. **Product model:** SOLAR120/ SOLAR200
2. **Name and address of the manufacturer or his authorised representative:**



Nuair Ibérica, Lda. Rua da Zona Industrial, 560, 4520-114,
Santa Maria da Feira, Portugal
Tel: +351 256 580 930. Email: sat@nuair.pt

3. **This declaration of conformity is issued under the sole responsibility of the manufacturer.**
4. **Object of the declaration:**

Equipment: Portable Folding Solar Panel
Brand name: IMPAX
Model/type: SOLAR120/ SOLAR 200

5. **The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:**

2014/30/EU. Electromagnetic Compatibility Directive,
2011/65/EU. Restriction of the use of Certain Hazardous Substances in Electrical and Electronics
Equipment (ROHS) Directive

6. **References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:**

EN 55032:2015+AC:2016-07	IEC 62321-4:2013
EN 55035:2017+AC:2019-11	IEC 62321-5:2013
EN 61000-3-2:2019	IEC 62321-6:2015
EN61000-3- 3:2013+A1:2019	IEC 62321-7-1:2015
IEC 62321-3-1:2013	IEC 62321-8:2017

7. **The person authorized to compile the technical file:**

Name: Sérgio Fernandes
Address: Nuair Ibérica, Lda. Rua da Zona Industrial, 560, 4520-114, SMF, Portugal

Signed for and on behalf of:

Authorised Representative

Sérgio Fernandes, Technical Manager
01/01/2023