

RCS01 RPA Transmitter Charging Station



Desktop version.
RPA Transmitter for illustrative purposes only.



This equipment is designed and manufactured to conform to the following EC standards:

EMC EN50121-4:2006, ENV50204:1996

Safety EN60950:2000

Failure to use the equipment in the manner described in the product literature will invalidate the warranty.

A 'Declaration of Conformity' statement to the above standards, and a list of auxiliary equipment used for compliance verification, is available on request.



This product must be disposed of in accordance with the WEEE directive.



This product is RoHS compliant.

Copyright © 2008 Application Solutions (Safety and Security) Ltd.

Application Solutions (Safety and Security) Ltd.
Unit 17 Cliffe Industrial Estate
Lewes - East Sussex
BN8 6JL - UK
Tel: +44(0)1273 405411 Fax: +44(0)1273 405415
www.asl-control.co.uk



QUALITY ASSURED FIRM
CERTIFICATE NUMBER 96-LON-AQ-041

All rights reserved.

Information contained in this document is believed to be accurate, however no representation or warranty is given and Application Solutions (Safety and Security) Ltd. assumes no liability with respect to the accuracy of such information.

Contents

1	Description	5
2	Operation	6
3	Installation	7
3.1	Desktop Installation	7
3.2	Desk Mount Installation	9
3.3	Wall Mount Installation	12
4	Maintenance	15
4.1	Replacing the Mains Power Supply Fuse.....	15
4.2	Spare Parts.....	16
5	Product Specification	17
6	Mechanical Dimension	18
7	Safety and Precautions	21
7.1	Environmental.....	21
7.2	Electrical Safety.....	21
7.3	Unpacking and Handling	21
8	Reference Documents	22
	Service and Warranty	23

This page intentionally left blank.

1 Description

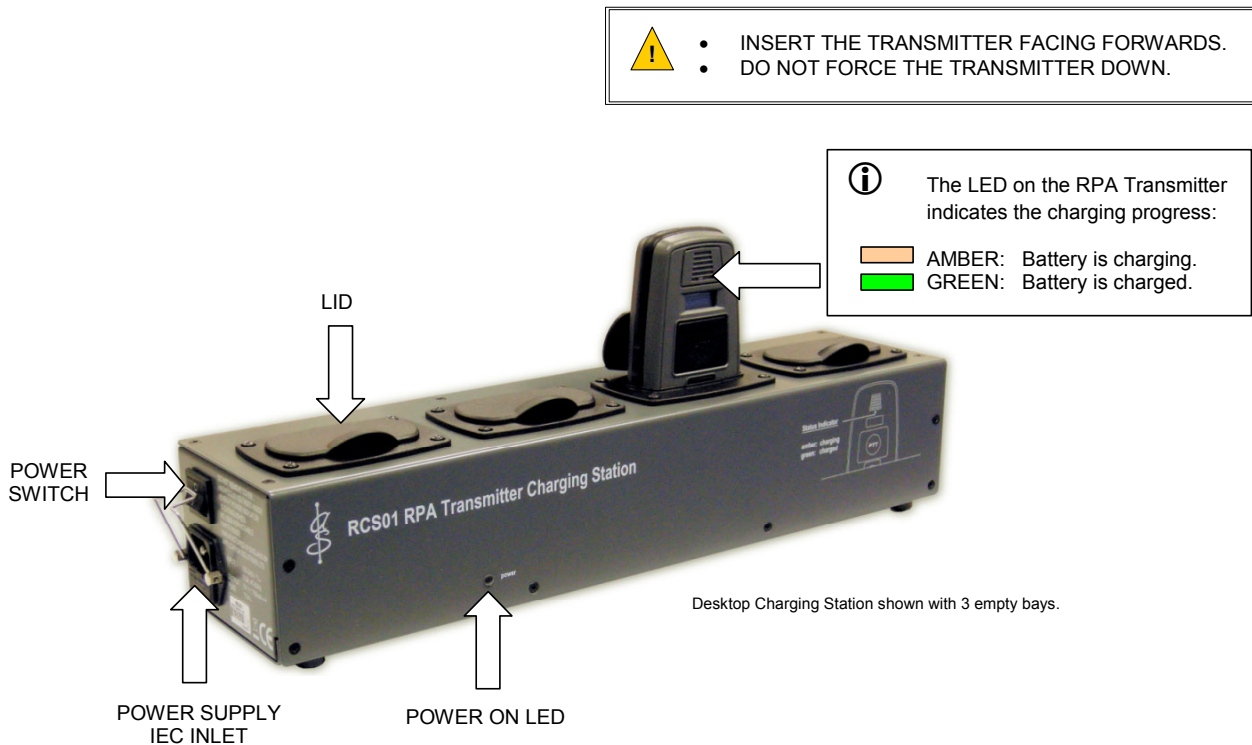
The RCS01 RPA Transmitter Charging Station is designed to recharge up to four of the RPA01 transmitters simultaneously. From a flat battery it typically takes two hours to recharge the lithium polymer batteries which are built into the RPA01 transmitters.

The unit is supplied with two mounting brackets and four rubber feet. It can be fixed to a wall or desk with the mounting plates, or be left free-standing on the rubber feet.



RPA Transmitter for illustrative purposes only.

2 Operation



Do not place anything in the Charging Station other than the RPA01 transmitter. You might damage the contacts, this may prevent the RPA01 transmitter from charging.

Charging a Battery

1. Switch the power supply ON, using the power switch.

The **power** LED illuminates to indicate that the Charging Station is powered on.

2. Lift up one of the charging bay lids, and place the RPA01 transmitter into one of the four bays so that the battery contacts meet the charger contacts.



The transmitter should be only inserted with the display and buttons facing towards as shown in the above figure, and must not be forced.

3. The LED on the RPA01 transmitter will illuminate AMBER to indicate that charging is in progress. Charging will usually be completed within two hours.
4. When charging is complete, the LED on the RPA Transmitter will change to GREEN.
5. Lift the RPA01 transmitter out of the charging bay.
The protective lid will then drop back down over the charging bay.

3 Installation



Please read and observe the “[Safety and Precautions](#)” section on page 21 of this manual.

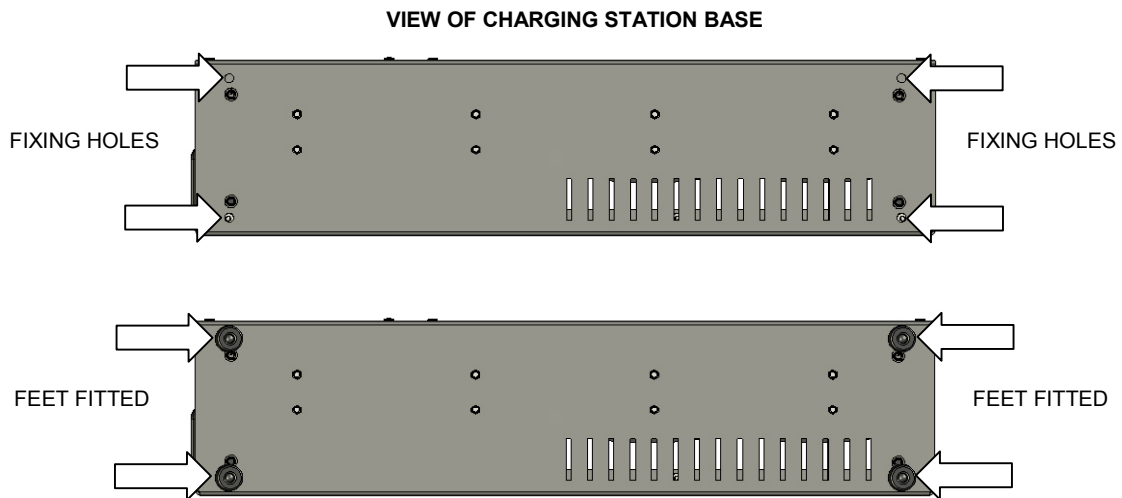
3.1 Desktop Installation

Required Tools

- 4 x rubber feet (supplied).
- 1 x IEC connector for the power supply cable (supplied).
- A pozidrive screwdriver No. 2.
- A medium flat-bladed screwdriver.

Installing the Feet

Push the four rubber feet supplied into their fixing holes on the base of the charging station.



Installing the Power Supply Cable

1. Terminate the power supply cable with the IEC connector provided.
 - a. Remove the cover by undoing the fixing screw.
 - b. Remove the rubber grommet, and pass the mains cable through it, observing the correct orientation of the cable.
 - c. Strip the outer sheath and insulation on the cable to the required lengths, making sure the outer sheath of the cable will be held by the cable grip when the connections are made.
 - d. Remove the cable grip by undoing the top two screws.
 - e. Fit the rubber grommet back into position.
 - f. Make the connections to the terminals as follows:
 - Live to terminal marked “L”
 - Neutral to terminal marked “N”
 - Earth to terminal marked “E” or \perp .
 - g. Re-fit the cable grip back into position using the two screws
 - h. Secure the cable in the cable grip by tightening the two screws.
 - i. Re-fit the cover using the fixing screw.

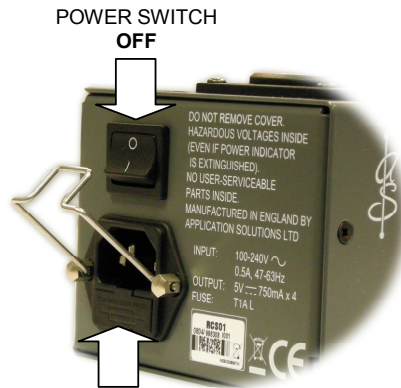


The power supply cable must be terminated with the IEC connector provided (BULGIN PX0587) in order for the retaining clip to fit properly.

Normal standard mains cabling to fit the supplied IEC connector.



2. Ensure that the power switch on the Charging Station is switched off.



IEC320 INLET WITH RETAINING CLIP

3. Plug the power supply cable into the Charging Station, and secure the power cable with the retaining clip.



The retaining clip should be fitted in order to prevent accidental removal of the cable.



RETAINING CLIP SECURING THE CABLE

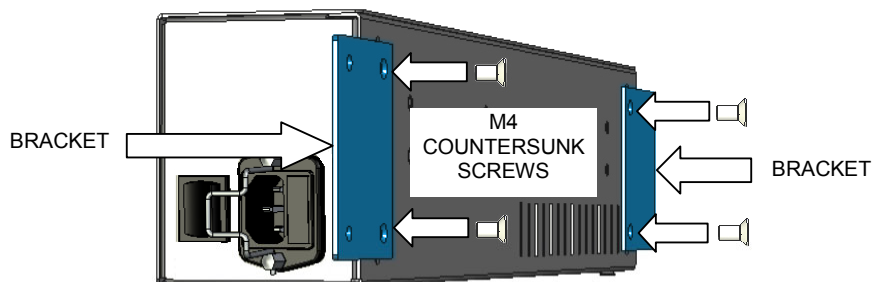
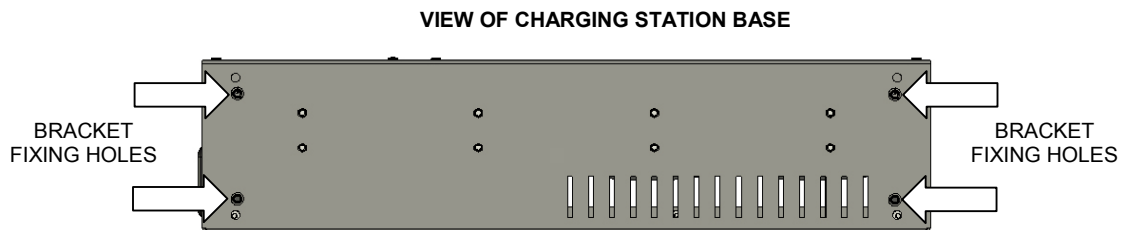
3.2 Desk Mount Installation

Required Tools

- 2 x desk mounting brackets (supplied).
- 4 x M4 pozidriv countersunk screws for fixing the brackets to the unit (supplied).
Use only the M4 screws provided. Alternative screws must not exceed 8 mm.
- 1 x IEC connector for the power supply cable (supplied).
- A pozidrive screwdriver No. 2.
- A medium flat-bladed screwdriver.
- Suitable fixings for the unit.
- A screwdriver, nut spinner, or other appropriate tool to fix the above fixings.

Installing the Fixing Brackets

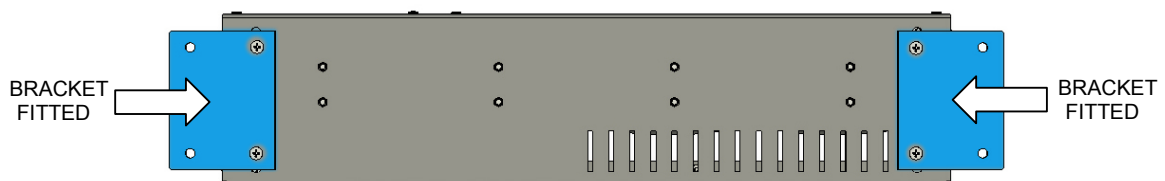
Fit the two fixing brackets to the base of the unit using the screws provided.



Countersunk holes to be used for fixing the brackets.



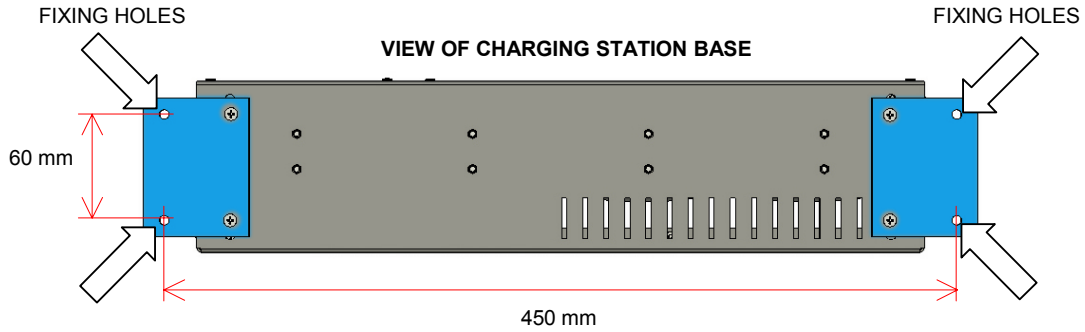
Use only the M4 screws provided.
Alternative screws must not exceed 8 mm.



Installing the Unit on the Desk

1. Mark the surface on which the Charging Station will be fitted.

The unit has four fixing holes on 60 mm x 450 mm centres. See [Figure 2](#) for further details.



2. Prepare the mounting holes appropriately.
3. Fix the Charging Station to its mounting position using the selected fixings and appropriate tools.

Installing the Power Supply Cable

1. Terminate the power supply cable with the IEC connector provided.
 - a. Remove the cover by undoing the fixing screw.
 - b. Remove the rubber grommet, and pass the mains cable through it, observing the correct orientation of the cable.
 - c. Strip the outer sheath and insulation on the cable to the required lengths, making sure the outer sheath of the cable will be held by the cable grip when the connections are made.
 - d. Remove the cable grip by undoing the top two screws.
 - e. Fit the rubber grommet back into position.
 - f. Make the connections to the terminals as follows:
 - Live to terminal marked “L”
 - Neutral to terminal marked “N”
 - Earth to terminal marked “E” or \perp .
 - g. Re-fit the cable grip back into position using the two screws
 - h. Secure the cable in the cable grip by tightening the two screws.
 - i. Re-fit the cover using the fixing screw.

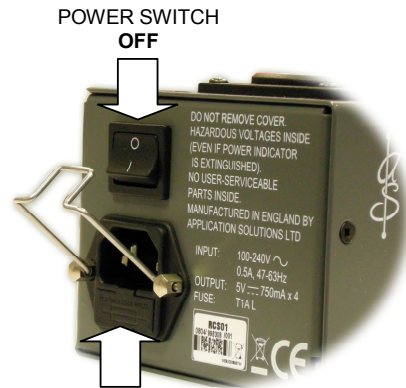


The power supply cable must be terminated with the IEC connector provided (BULGIN PX0587) in order for the retaining clip to fit properly.

Normal standard mains cabling to fit the supplied IEC connector.



2. Ensure that the power switch on the Charging Station is switched off.



IEC320 INLET WITH RETAINING CLIP

3. Plug the power supply cable into the Charging Station, and secure the power cable with the retaining clip.



The retaining clip should be fitted in order to prevent accidental removal of the cable.



RETAINING CLIP SECURING THE CABLE

3.3 Wall Mount Installation

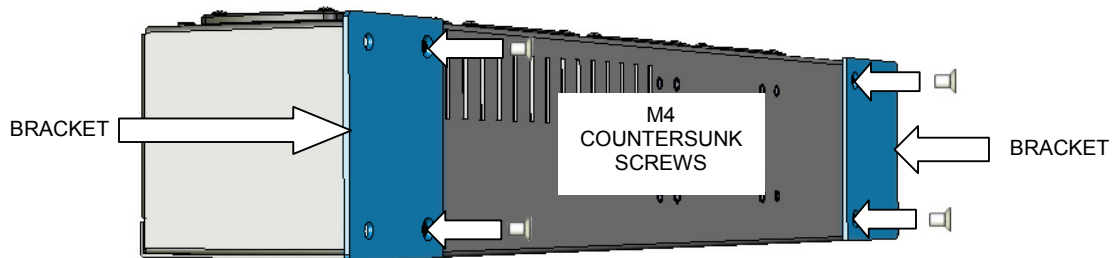
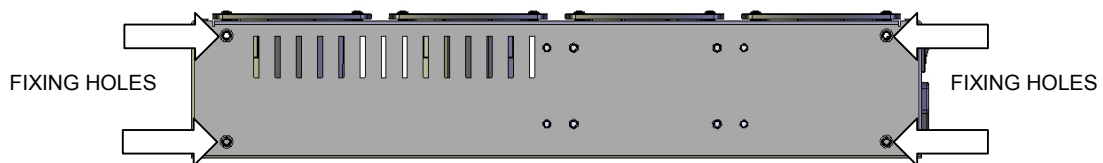
Required Tools

- 2 x desk mounting brackets (supplied).
- 4 x M4 pozidriv countersunk screws for fixing the brackets to the unit (supplied).
Use only the M4 screws provided. Alternative screws must not exceed 8 mm.
- 1 x IEC connector for the power supply cable (supplied).
- A pozidrive screwdriver No. 2.
- A medium flat-bladed screwdriver.
- Suitable fixings for the unit.
- A screwdriver, nut spinner, or other appropriate tool to fix the above fixings.

Installing the Fixing Brackets

Fit the two fixing brackets to the rear of the unit using the screws provided.

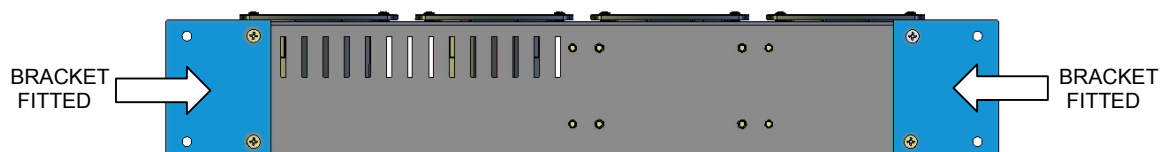
VIEW OF CHARGING STATION REAR



Countersunk holes to be used for fixing the brackets.



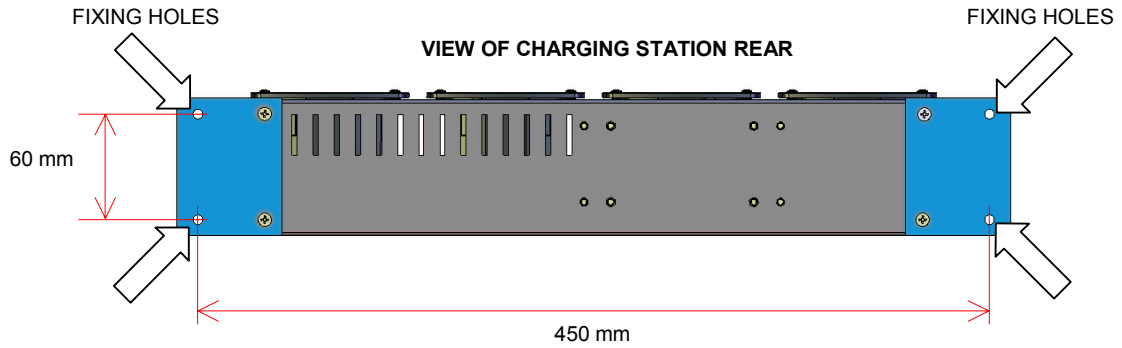
Use only the M4 screws provided.
Alternative screws must not exceed 8 mm.



Installing the Unit on the Wall

1. Mark the surface on which the Charging Station will be fitted.

The unit has four fixing holes on 60 mm x 450 mm centres. See [Figure 3](#) for further details.



2. Prepare the mounting holes appropriately.
3. Fix the Charging Station to its mounting position using the selected fixings and appropriate tools.

Installing the Power Supply Cable

1. Terminate the power supply cable with the IEC connector provided.
 - a. Remove the cover by undoing the fixing screw.
 - b. Remove the rubber grommet, and pass the mains cable through it, observing the correct orientation of the cable.
 - c. Strip the outer sheath and insulation on the cable to the required lengths, making sure the outer sheath of the cable will be held by the cable grip when the connections are made.
 - d. Remove the cable grip by undoing the top two screws.
 - e. Fit the rubber grommet back into position.
 - f. Make the connections to the terminals as follows:
 - Live to terminal marked “L”
 - Neutral to terminal marked “N”
 - Earth to terminal marked “E” or \perp .
 - g. Re-fit the cable grip back into position using the two screws
 - h. Secure the cable in the cable grip by tightening the two screws.
 - i. Re-fit the cover using the fixing screw.

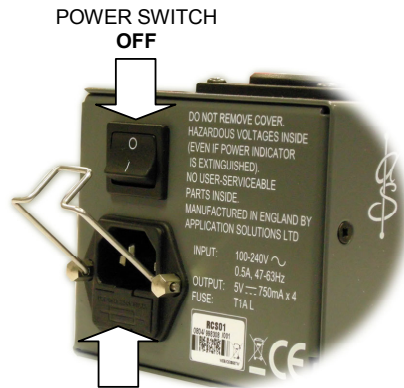


The power supply cable must be terminated with the IEC connector provided (BULGIN PX0587) in order for the retaining clip to fit properly.

Normal standard mains cabling to fit the supplied IEC connector.



2. Ensure that the power switch on the Charging Station is switched off.



IEC320 INLET WITH RETAINING CLIP

3. Plug the power supply cable into the Charging Station, and secure the power cable with the retaining clip.



The retaining clip should be fitted in order to prevent accidental removal of the cable.



RETAINING CLIP SECURING THE CABLE

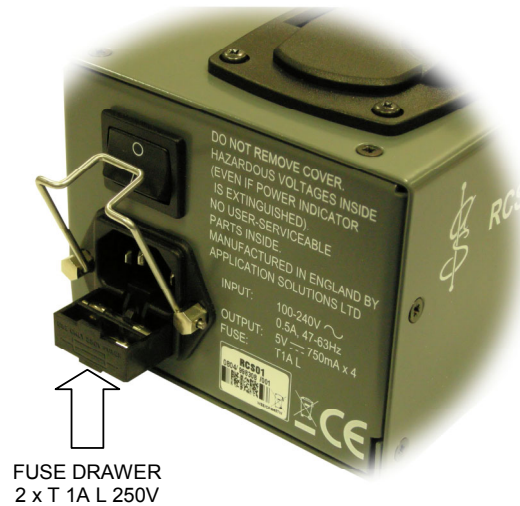
4 Maintenance

There are no routine maintenance tasks for the Charging Station, except for mains supply fuse replacement when required, and occasional removal of any dust or debris, which may have fallen into the charging bay.

4.1 Replacing the Mains Power Supply Fuse



Please read and observe the “[Safety and Precautions](#)” section on page 21 of this manual.



1. Ensure that the power switch on the Charging Station is switched off.
2. Disconnect the power supply cable.
3. Pull out the fuse drawer, located with the IEC inlet at the left side of the Charging Station.
4. Check that the fuses are intact, and then replace them if required.
Replace with type T 1A L 250V.

4.2 Spare Parts

ASL Part Number	Additional Information
207635	IEC Female Connector for Power Supply Cable ¹ Manufacturer/Supplier: Bulgin Manufacturer/Supplier Part No.: PX0587 Manufacturer/Supplier Description: Straight female connector, rewirable.
K0618003	RCS01 Charging Station Fixing Kit Manufacturer/Supplier: Application Solutions (Safety and Security) Ltd. Manufacturer/Supplier Part No.: K0618003 Manufacturer/Supplier Description: 4 rubber feet, 2 wall-mount bracket and screws, IEC Female Connector for Power Supply Cable

¹ This connector type must be used in order for the retaining clip to work properly.

5 Product Specification

General

Power Supply	100 V – 240 V AC, 47 Hz – 63 Hz
Current.....	0.5 A
Fuse Rating	T 1A L 250 V
Capacity.....	up to 4 RPA01 Radio Microphones
Flat Battery Recharging Time.....	2 hours (typical)
Connector	IEC inlet
Format	Metal case, plastic charging bays
Colour	
Case and Brackets	Grey with white annotation Low Smoke and Fume, Zero Halogen
Charging Bays	Black

Environmental

Temperature (Storage and Operating)	-5 °C to +50 °C
Humidity Range	0% to 93% Non-condensing

Safety and EMC

EMC.....	EN50121-4:2006, ENV50204:1996
Safety.....	EN60950:2000

Dimensions and Weight

Desktop Mount (including feet, excluding retaining clip)	
Dimensions (H x W x D)	90 mm x 424 mm x 100 mm
Weight	2 kg
Desk Mount (including brackets, excluding retaining clip)	
Dimensions (H x W x D)	85 mm x 474 mm x 100 mm
Weight	2.2 kg
Wall Mount (including brackets, excluding retaining clip)	
Dimensions (H x W x D)	85 mm x 474 mm x 102 mm
Weight	2.2 kg

6 Mechanical Dimension

Figure 1 Desktop Charging Station

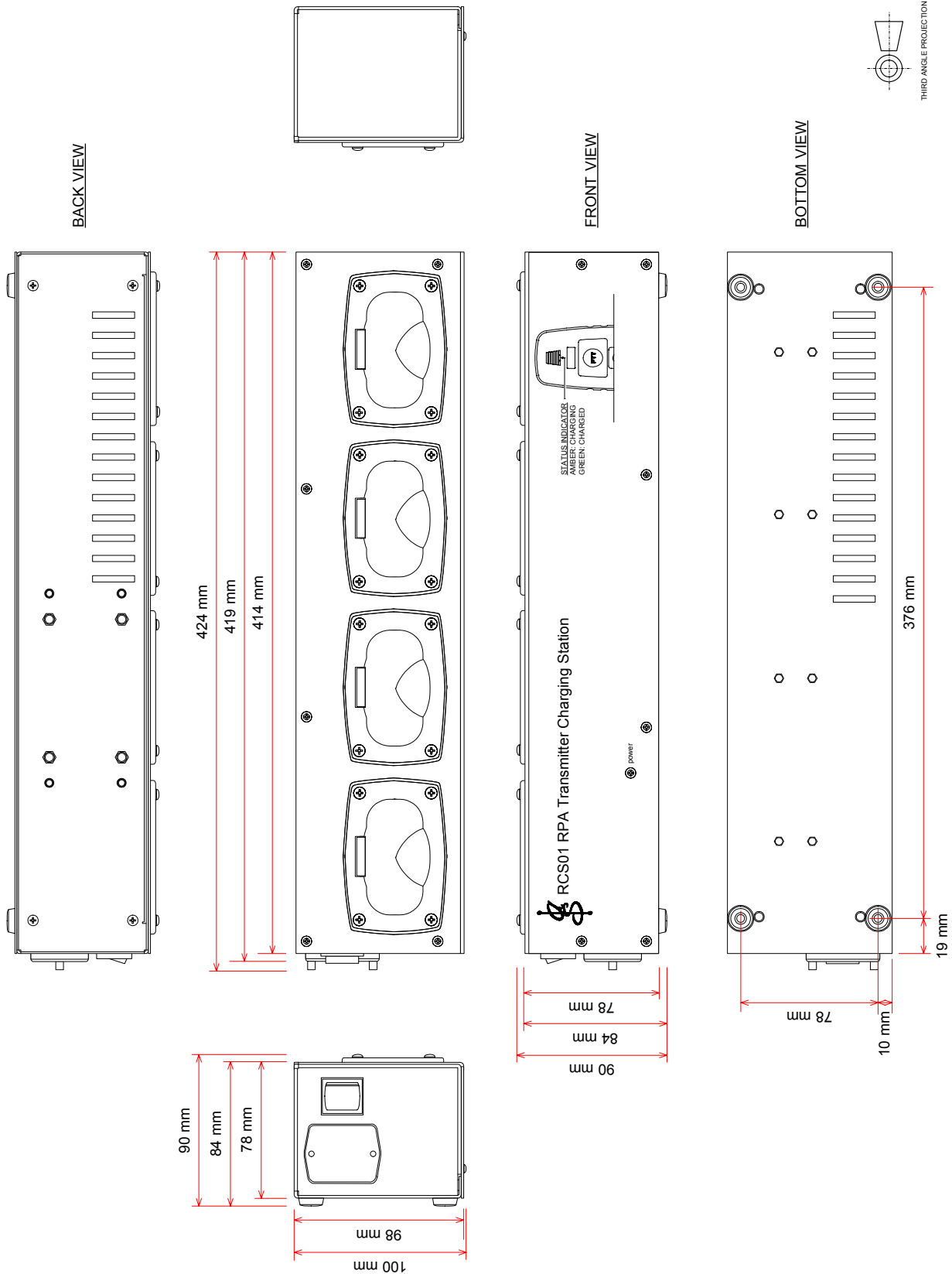


Figure 2 Desk Mount Charging Station

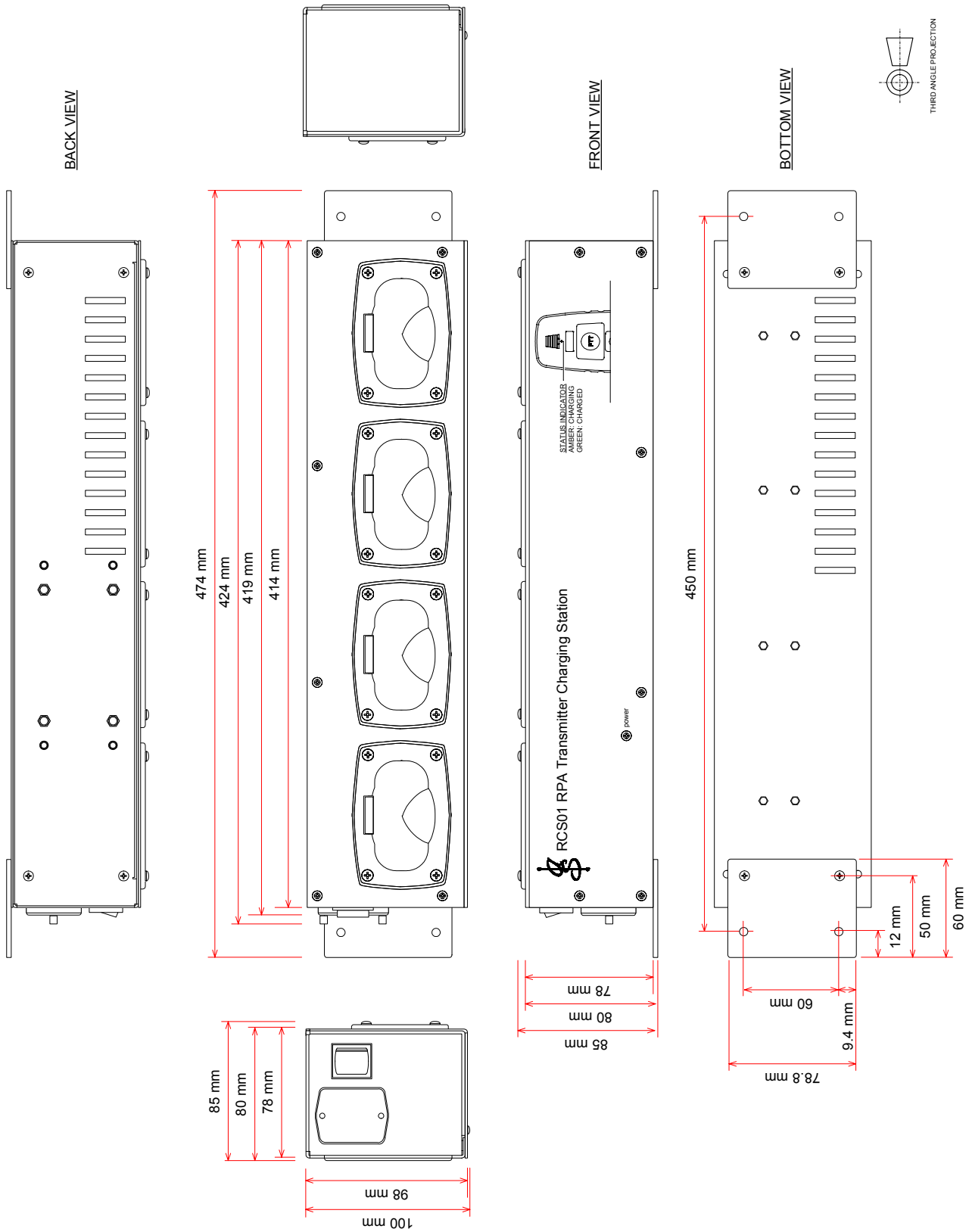
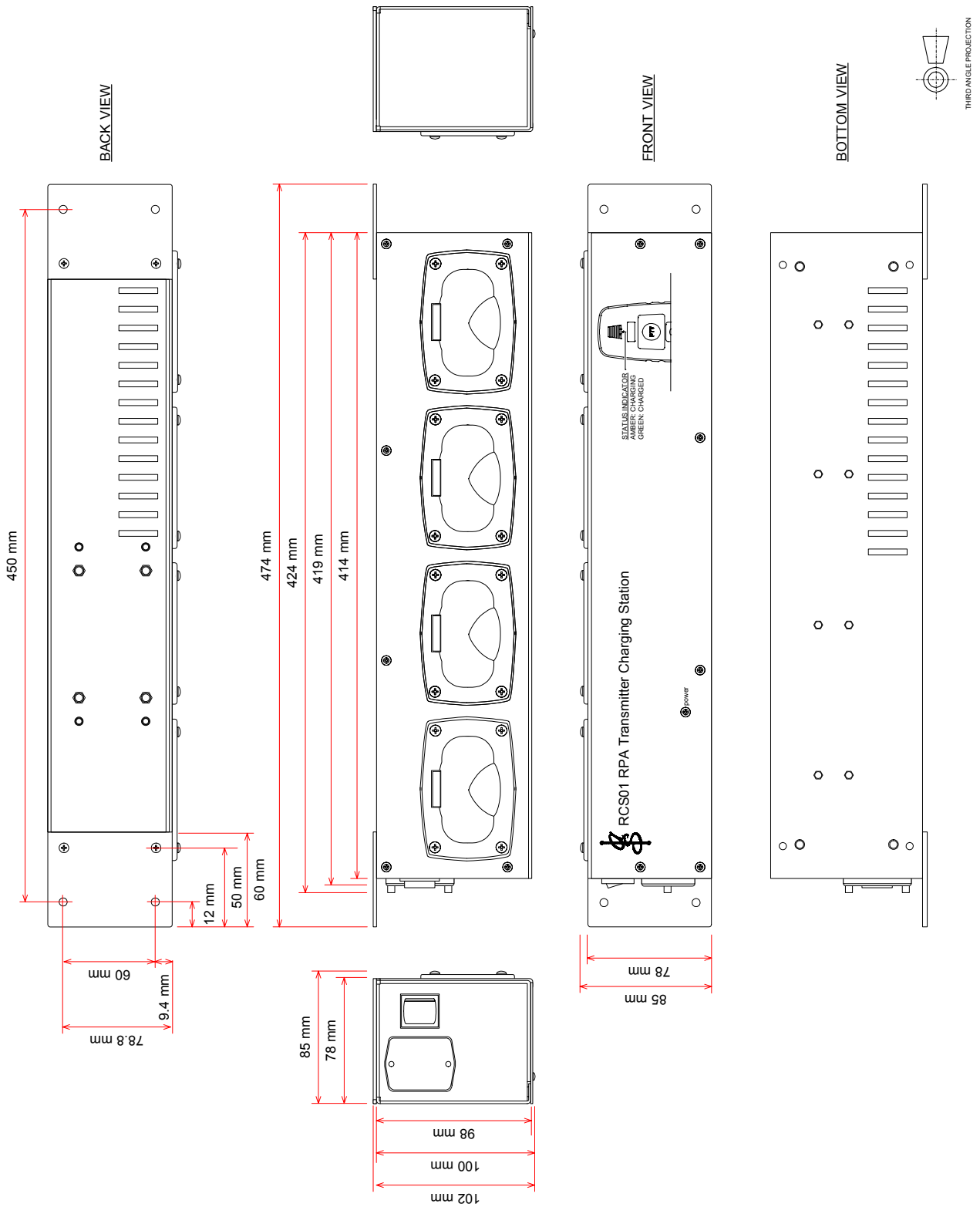


Figure 3 Wall Mount Charging Station



7 Safety and Precautions

7.1 Environmental

Always ensure adequate ventilation is provided for the equipment and do not obstruct ventilation holes.

The temperature and humidity ranges shown in the specifications for this product must not be exceeded.

This equipment must not be installed in an area that is subject to a corrosive atmosphere, excessive moisture or may allow water or other liquids to come into contact with the unit or its external connections.

7.2 Electrical Safety



This product contains wiring that is energised to 230 V RMS AC mains.



Always ensure that the equipment is correctly earthed by connection to an AC mains supply with a protective earthing connection.

Ensure power supply cabling is adequately rated for the unit's operating current and protected, in case of short circuit, by a correctly rated fuse or circuit breaker.



Always replace blown fuses with the correct type and rating.

7.3 Unpacking and Handling

The equipment should be unpacked and inspected immediately on receipt. If damage has occurred please advise your carrier or supplier.

It is advisable to retain the original equipment packing in the event that the equipment ever needs returning for service.

Ensure that the name and address of the Authorised Distributor from whom you purchased the unit is recorded on the "[Service and Warranty](#)" page of this manual for future reference.

Advice on packing the product for return can be provided by Application Solutions (Safety and Security) Ltd..

8 Reference Documents

Additional reference information may be found in the following documentation, available from the "Data Downloads" page of Application Solutions (Safety and Security) Ltd. website: www.asl-control.co.uk

Table 1 Reference Documents

Ref. No	Title	Filename Ref	Origin
1	RPA01 Transmitter Product Manual	U-0618-0103	ASL
2	SAP01 Product Manual	U-0464-0414	ASL
3	SAP02 Product Manual	U-0464-0454	ASL

Service and Warranty

Name and Address of Authorised Distributor:

This product carries a full warranty. For full details of warranty and service agreements, please contact the Authorised Distributor who supplied the product to you.

Exclusions

The warranty does NOT cover:

1. Customer misuse, including incorrect installation.
2. Damage other than manufacturing defects.
3. Transit / Courier damage.
4. Incorrect voltage or power supply used.
5. Incorrect input signal.
6. Abnormal environmental operating conditions.
7. Damage incurred by accident, fire, lightning or other hazard.
8. Modification to the unit or inexpert / attempted repair.
9. No fault found – where no fault can be found after extensive testing, indicating user error or failure in ancillary equipment.
10. Electronic assemblies which are improperly packed when returned for repair or service.

Should any of the above apply, Application Solutions (Safety and Security) Ltd. reserves the right to raise any relevant charges to the customer.

Application Solutions (Safety and Security) Ltd. shall not be liable for any indirect, special or consequential loss or damage (including without limitation any loss of profits) arising from the use of this product or for any breach of this warranty.

In the interest of continual product development, Application Solutions (Safety and Security) Ltd. reserves the right to make changes to product specification without notice or liability.



Application Solutions (Safety and Security) Ltd.

www.asl-control.co.uk