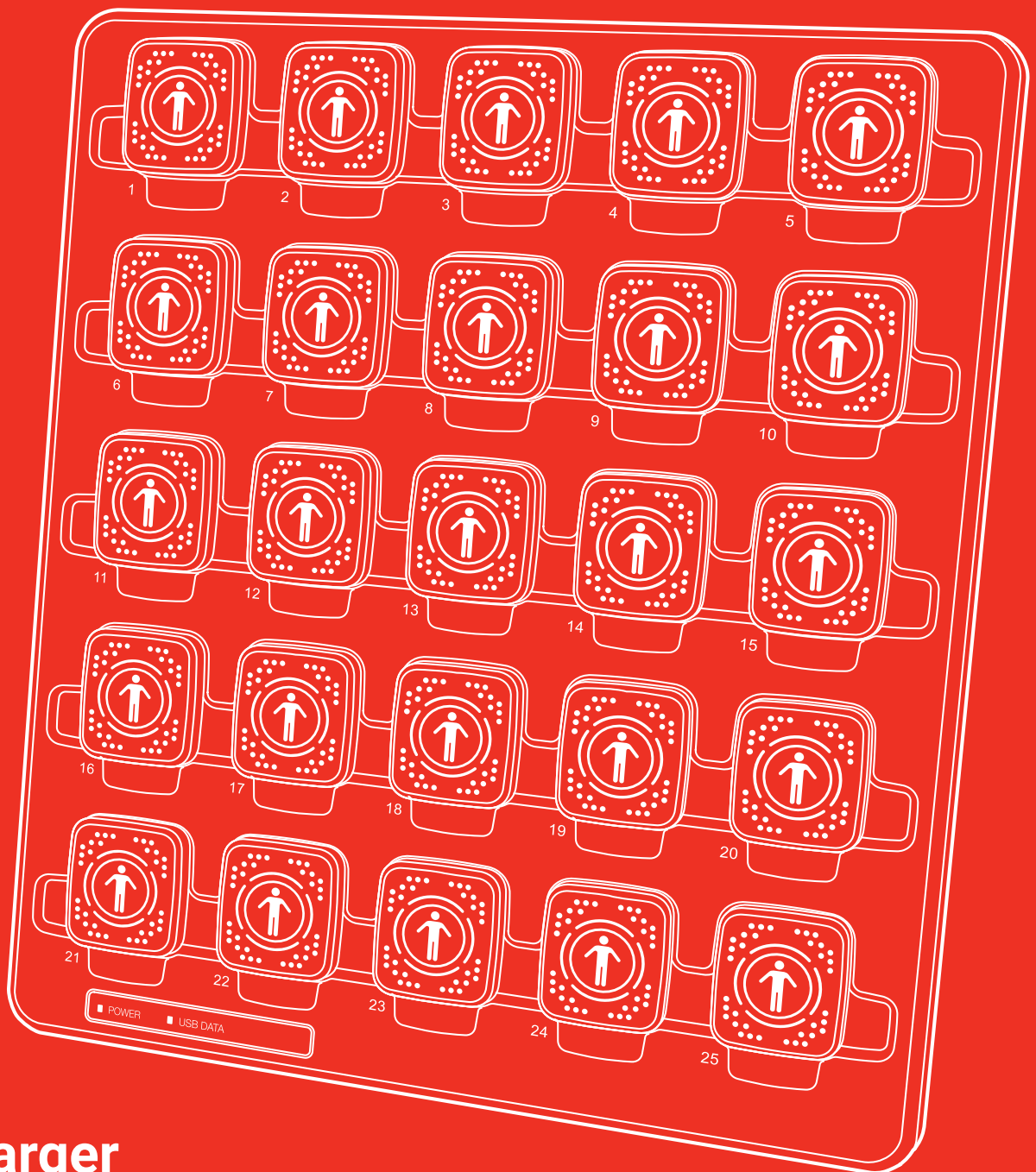




Safe Spacer

Wearable social distance monitor



S-Charger





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1 SAFETY INSTRUCTIONS

Before using this product, carefully read this user manual. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to S-Charger or other property. Do not dispose of this manual. Ensure that this information is retained and used appropriately by the product user.

- Users must fully understand and strictly observe the instructions. Use the product only for the purposes specified in this document. Comply with all local and national rules and regulations associated with this product.
- Users of S-Charger must be familiar with the relevant safety concepts of the industrial environment they are operating in, as well as applicable standards and other regulations. Always obey site-specific signs and instructions.

NOT FOR USE IN A POTENTIALLY EXPLOSIVE ENVIRONMENT

Using S-Charger in any area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as grain, dust, or metal powders), may be hazardous.

Exposing S-Charger to environments having high concentrations of industrial chemicals may damage or impair Safe Spacer functionality.

1.1 REPAIR AND MODIFICATIONS

- Only trained and competent personnel are permitted to inspect, repair and service S-Charger.
- Use only original parts and accessories for using and maintaining this product. Otherwise, the correct functioning of the product could be impaired.



CAUTION: Modifications to any component of S-Charger are not permitted, as they can endanger your safety or damage the device. Disassembling Safe Spacer may cause damage and may cause injury to the user.



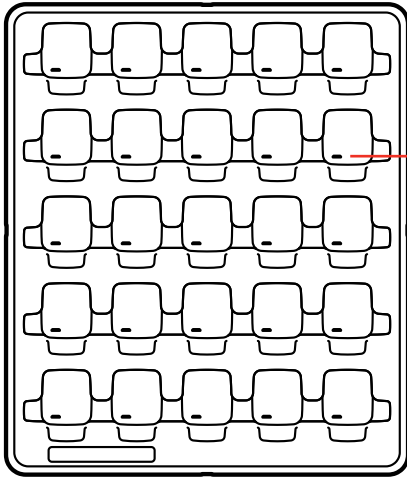
EUROPEAN UNION—DISPOSAL INFORMATION

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



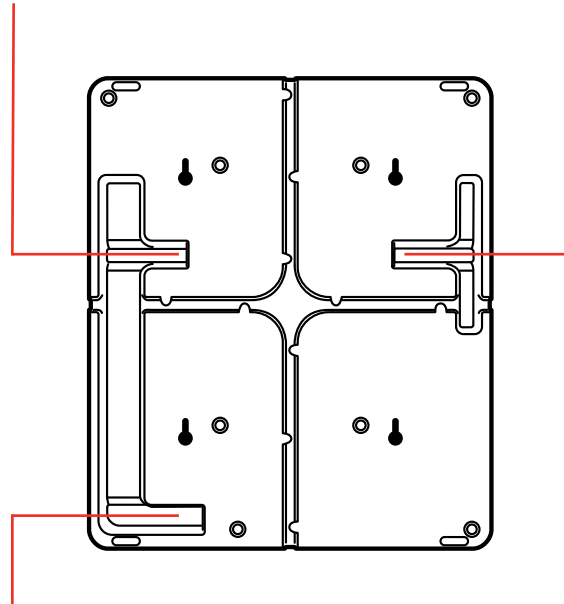
2 OVERVIEW

MICRO USB PORT (25 x)



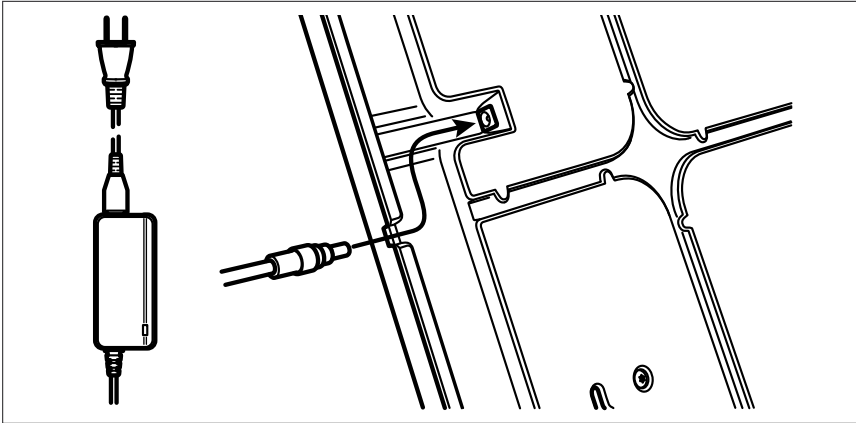
DC-IN / DC-LINK

DC-IN / DC-LINK

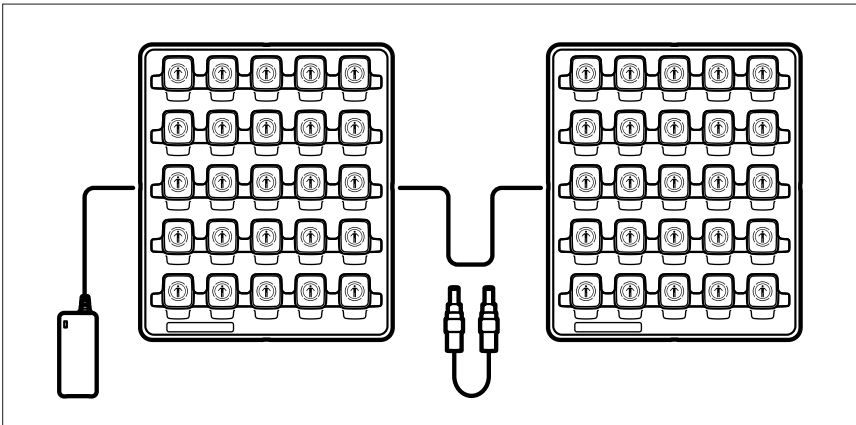


USB TYPE-B PORT

3 POWER SUPPLY

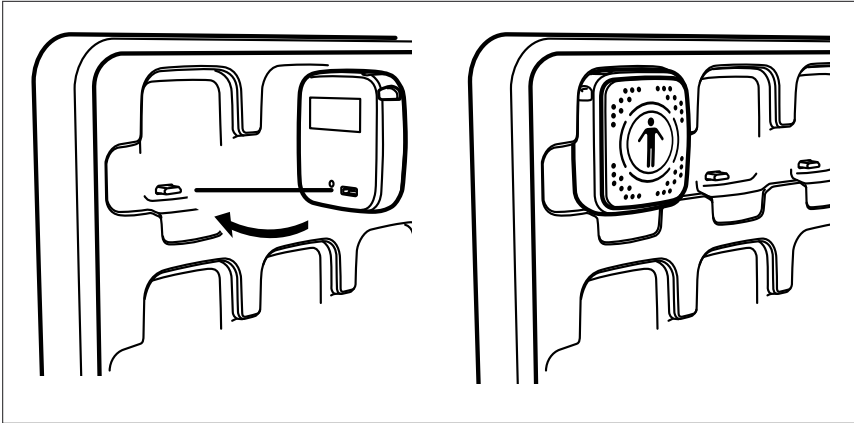


- Connect a **PSU** (sold separately) to either of the two **DC-IN / DC-LINK** ports on the back of S-Charger.

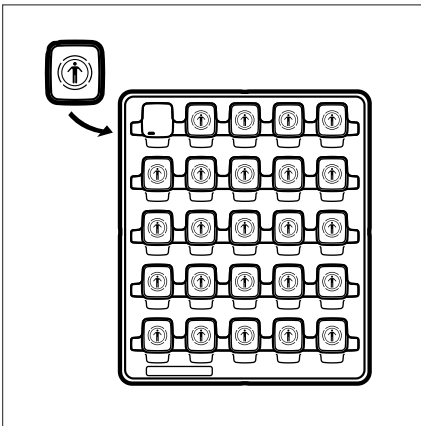


- It is possible to connect multiple S-Chargers to a single PSU, using the optional **S-Charger Power Link Cable** (sold separately).

4 CHARGING



- Insert the Safe Spacer units into the holders, paying attention to the position of the **Micro-USB** connector.

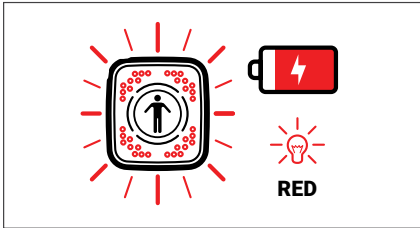


- It is possible to connect **up to 25** Safe Spacer to the same S-Charger in order to charge them.

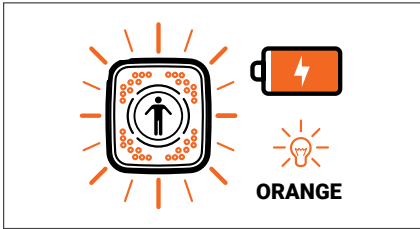


4.1 BATTERY LEVEL STATUS

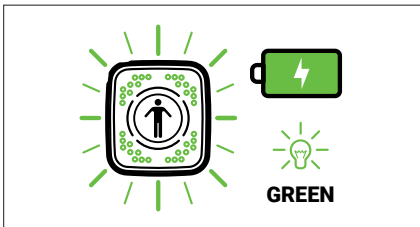
While the Safe Spacer is charging, the lights on the unit will show you the battery level status:



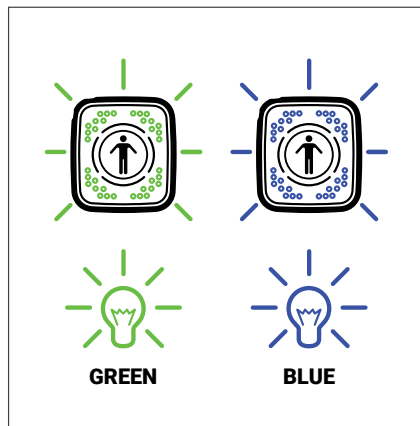
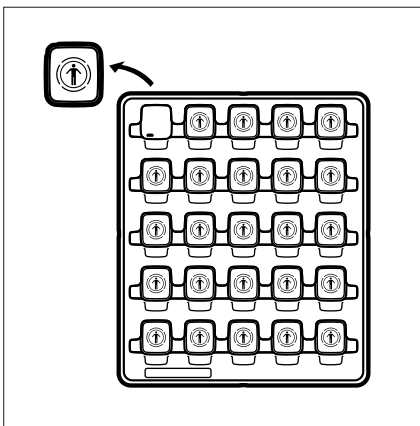
when the battery level is below 70% the LED will glow a steady **red**;



when the battery level is above 70% the LED will turn **orange**;



when the battery is fully charged the LED will turn **green**;

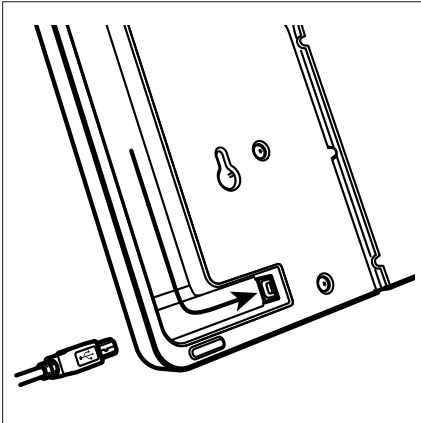


- Once the Safe Spacer is disconnected from the S-Charger, it will turn **ON** and the lights will blink an alternating **green & blue** for 10 seconds.

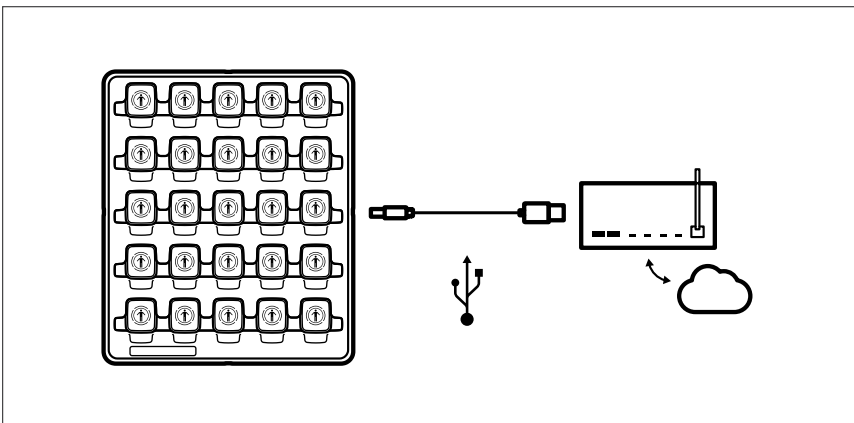
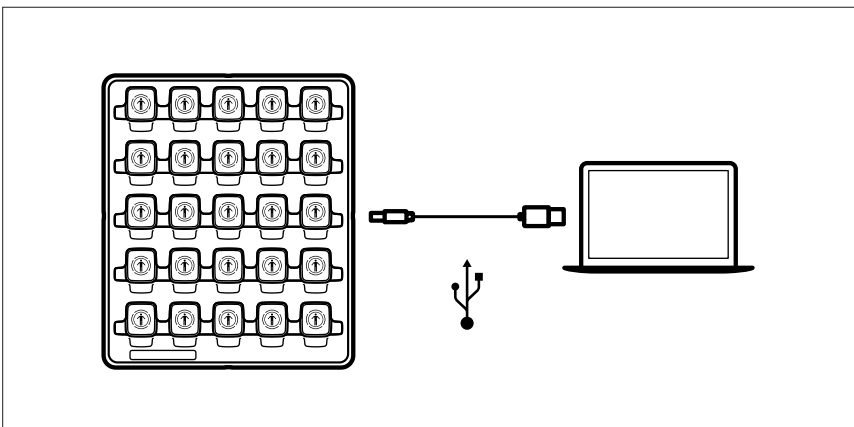


CAUTION: Keep Safe Spacer and the power adapter in a dry, well-ventilated area when charging. Don't use a charging cable or power adapter that is damaged or modified. Failure to do so may cause fire, electric shock, injury, or damage to Safe Spacer or other property. Don't wear Safe Spacer on your body or under clothing when charging the device.

5 DATA TRANSFER



- Insert the USB cable into the **USB-B** port on the back of S-Charger



- Then connect the other end of the cable to computer or IT infrastructure.

IMPORTANT NOTE: up to three S-Charger can be powered up with a single PSU.

But, each S-Charger must be connected to a free USB port on the host computer. Also, a physical limit does exist on the max number of USB virtual COM that can be connected to the same computer. The maximum number of devices that can be connected to a single USB port is (theoretically) 127. Unfortunately, different Operating Systems handle different USB controller models in different ways.

On Windows an average of 42-48 Safe Spacers can be handled contemporary.

The most stringent limit is due to the Intel USB 3.0 controllers' implementation of the XHCI specification.

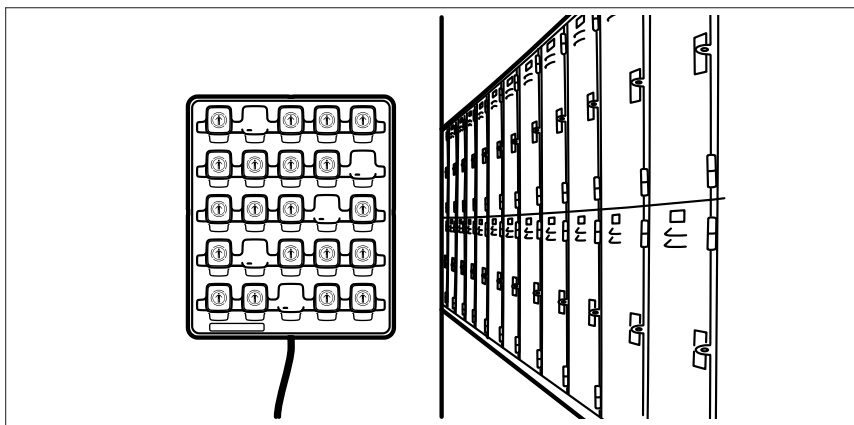
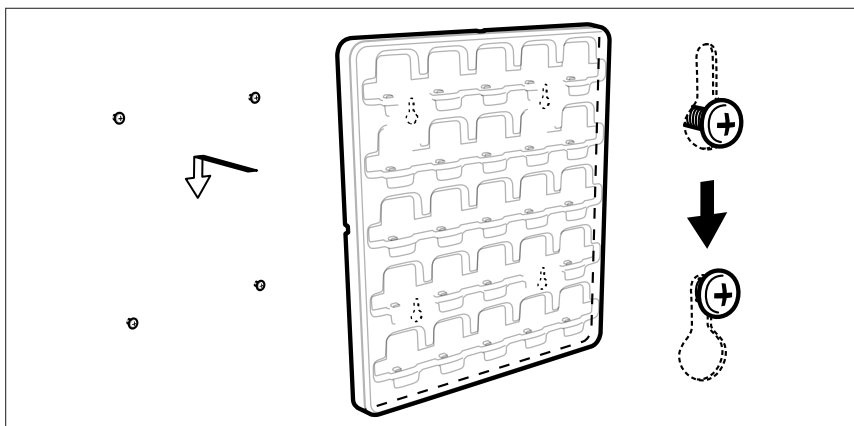
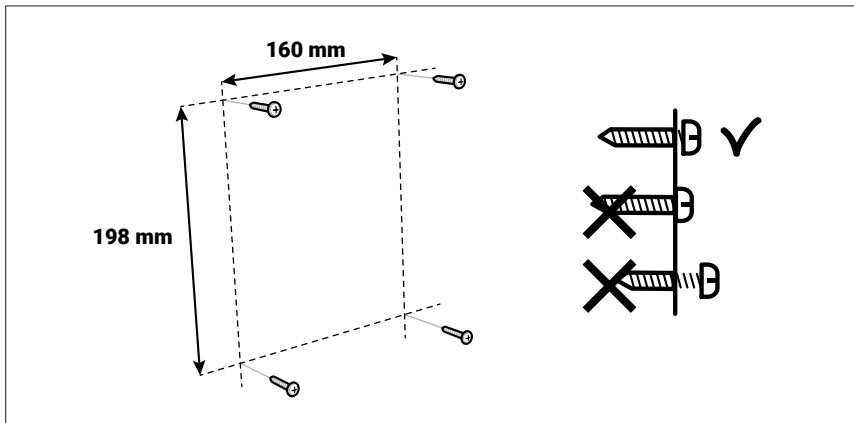
On Raspbian: 100 Safe Spacers can be properly handled.

On Mac an average of 30 Safe Spacers can be handled contemporary.

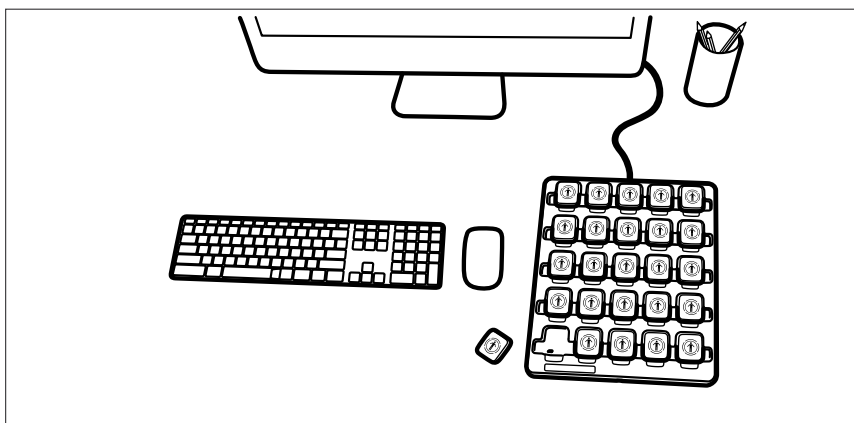


6 WALL FIXING OR FREESTANDING

The S-Charger can be fixed to a wall...



..or can be used freestanding, for example placed over a table.





7 SPECS

S-Charger

Allows to charge 25 Safe-Spacer units

Power supply	24VDC, 2.5A - 60W - (available separately)
Host connection	USB-B type connector
Dimensions	358 mm x 306 mm x 25 mm
Material	PP Polypropylene
USB cable	USB-B male to USB-A male cable (included)
Power Supply Unit (PSU)	PSU to power up to 3 S-Charger units (available separately)
Daisy chain cable (power only - no data)	allows to power up to 3 S-Charger units with the same PSU (available separately)





REGULATORY

S-Charger

P/N: IK152-100



FCC statement

This device complies with Part 15.107 and 15.109 Class B of the FCC Rules CFR47: October 2010.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

