

USE AND MAINTENANCE MANUAL



E-PS

 **polini** [®] motori
trasforma il meglio in massimo

ENGLISH

- Thank you for choosing an E-bike equipped with Polini E-P3 motor.
- Only drive your vehicle using protective clothing
- Please look at the web page www.poliniebike.com for tutorial videos, manuals and news.

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1.0- IMPORTANT NOTICE

For safety, carefully read this users' manual before using and follow it for correct use.

- Go to the place of purchase or to a bicycles' dealer for information on the installation and adjustment of the products which are not included in this manual.
- Do not disassemble or alter this product.
- Use the product according to the local laws and regulations.

1.1- Important Safety information



DANGER How to handle the battery

- Do not deform, modify and disassemble the battery. Do not apply welding on the battery itself. Doing so may cause leakages, overheating, bursting or ignition of the battery.
- Do not leave the battery near sources of heat such as heaters. Do not heat the battery or throw it into the fire. Doing so may cause

bursting or ignition of the battery.

- Do not subject the battery to strong shocks or throw it. Doing so may cause bursting or ignition of the battery.
- Do not place the battery into fresh or sea water and avoid the battery terminals getting wet. Doing so may cause bursting or ignition of the battery.
- Use only the proper Polini charger to recharge the battery and respect the indicated charging conditions. Not doing so may cause bursting or ignition of the battery.
- If any liquid leaking from the battery gets into contact with your eyes, immediately wash the affected area with clean water without rubbing your eyes and seek medical advice immediately. If this is not done the battery liquid may damage your eyes.
- Do not recharge the battery in places with high humidity or outdoors. Doing so may result in electric shock
- Do not insert or remove the plug while it is wet. If this is not observed, electric shock may result. If there is water leaking out of the plug, dry it thoroughly before inserting it.
- If the battery does not become fully charged after 6 hours of charging, immediately unplug the battery from the outlet to stop charging and contact the dealer. If this is not observed it may cause overheating, bursting or ignition of the battery.
- Do not use the battery if it has any noticeable scratches or other external damage. If this is not observed it may cause bursting, overheating or other problems.
- The operating temperatures ranges of the battery are given below. Do not use the battery with temperature outside these ranges. If the battery is used or stored in temperatures outside these ranges, fires, injuries or operation problems may occur.
 1. During use: $-20^{\circ}\text{C} / + 60^{\circ}\text{C}$
 2. During charging: $0^{\circ}\text{C} / + 45^{\circ}\text{C}$

To ensure safe riding

- To avoid accidents when the bicycle is moving, do not dedicate too much attention to the display of the cycle-computer.

Using the product safely

- Be sure to remove the battery before wiring or connecting the parts to the bicycle. Otherwise an electric shock may result.



CAUTION

To ensure safe when riding

- Observe the instructions given in the user's manual for the bicycles.

Using the product safely

- Periodically check the battery charger, particularly the wire, plug and the case to check the presence of any damage. If the charger or adapter are broken, do not use them till they have been repaired.
- This device is not intended for use by persons (including children) with reduced physical, sensor or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not allow children to play near the products.
- Contact a dealer for any information about installation and adjustment of the product.

- Do not turn the bicycle upside-down, leaning it on the ground. This operation may damage the display or the button.
- Handle the products carefully and avoid subjecting them to any strong shocks.

⚠ CAUTION - Do not use high pressure water jets or steam jets to clean the motor, display and battery because they could cause damages or malfunctioning. If it should happen, please immediately contact an authorized dealer. Do not use jets of compressed air to dry the motor.

How to handle the battery

- Do not leave the battery in a place exposed to direct sunlight, inside a vehicle on a hot day, or other hot places. This may result in battery leakage.
- If any leaked fluid gets on your skin or clothes, wash it off immediately with clean water. The leaked fluid may damage your skin.
- Store the battery in a safe place out of the reach of infants or pets.
- If any malfunctions or other problems occur, contact the dealer.
- Never attempt to modify the system yourself, as it may cause problems of malfunctioning.
- When the battery is removed, the bicycle works as a normal bicycle. If the light is connected to the motor, it does not turn on.
- When charging the battery while it is mounted on the bicycle, be careful of the following:
 - When charging, make sure that there is no water on the charging port or on the charger plug.
 - Make sure that the battery is locked into the battery mount before charging.
 - Do not remove the battery from the battery when charging.
 - Do not use the battery with the charger mounted.
 - Close the charging port on the battery when not charging.
- When carrying the E-Bike in a car, remove the battery from the bicycle and place the battery on a stable surface in the car.
- Before connecting the battery, make sure that there is not build-up water or dirt on the connector where the battery will be connected.
- The use of a Polini genuine battery is recommended
- Keep out of the reach of children
- Before cleaning the E-Bike, always remove the battery.

2.0- FEATURES OF POLINI E-P3 SYSTEM

The following information must be satisfied before using the E-P3 propulsion system:

- Battery is charged, inserted and turned on.
- Speed sensor is connected in accordance to the central movement and the magneto is properly placed.

When the speed of 25km/h is reached, the propulsion system disconnects automatically. The system turns on again when starting pedalling and the speed is lower than 25km/h.

Power assist stops simultaneously when the rider stops pedalling. Quick re-start of the power assist upon starting pedalling. Power assist system cooperates and harmonizes with rider's output.

2.1- Turn E-P3 system on

1. Turn the battery ON using the on/off button
2. Select your preferred assist mode from 1 to 5 using the arrow buttons.
3. The motor will start when the pedals start turning
4. Change the assist mode in accordance with the conditions of use.



2.2- Turn E-P3 system off

To turn the E-P3 system off, first switch the display off and the battery will switch off too.



FOR MODELS PRODUCED BEFORE 2019 ONLY

To turn the system off, first switch the display off and then switch the battery off. By turning off the display only, the battery remains ON for 2 hours with a low battery consumption.

→ CAUTION

- 1- To keep the travelling data updated on the display, first turn the display off and then the battery. On the contrary the travelling data on the display are not saved properly.
- 2- It is not possible to turn the display off while riding the E-bicycle.

3.0- BATTERY

3.1- Data sheet:	Lithium ion rechargeable battery
Nominal tension	36 V
Nominal capacity	13.8Ah
Energy	500 Wh
Working temperature	Charged: 0°+45°C - Dead: -20°+60°C
Storage temperature	1 year: -20°+25°C - 3 months: -20°+45°C 1 month: -20°+55 °C
Air humidity	45-70 %
Dimensions	348x81x72.3 mm
Weight	2.620 Kg

! DANGER

• Use the POLINI specified battery charger and observe the specified charging conditions when charging the battery. Not doing so may cause overheating, bursting or ignition of the battery.

! CAUTION

- When removing the battery charger power plug from the outlet or the charging plug from the battery, do not pull it out by the cord.
- When charging the battery while it is mounted on the bicycle, be careful not to trip over the charger cord or get anything caught on it. This may lead to injury or cause the bicycle to fall over, damaging the components.
- If the bicycle is stored for an extended period of time immediately after purchasing it, charge the battery before using the bicycle.

3.2- Indications of the battery charge level

After pushing the LED light button, the five LED lamps indicate the charge level. Each LED corresponds to 20% of capacity. You can check the current charging status on the LED lamp on the battery (state of charge). When charging the battery, the LED lamps are blinking.

LED	Charge level
	0 - 20 %
	20 - 40 %
	40 - 60 %
	60 - 80 %
	80 - 100 %



! WARNING

When the battery charge level is at 10%, the system manages independently the motor assistance to exploit the residual charge at the best. When the battery charge is not enough to give assistance to the motor, the system will stop independently the motor to grant the use of the light and of the display.

3.3- Installing and removing the battery

→ **CAUTION:** always turn the battery off before removing or installing it.

Removing the battery

1. Unscrew the security screw.



2. Insert the key in the cylinder on the battery holder.
3. To open it, turn the key while pulling the battery upwards.
4. Grab the upper side of the battery and remove it from the holder.



Installing the battery

1. Insert the battery into the battery mount paying attention not to damage the rubber gasket.
2. First insert the upper part of the battery and then the bottom part of the electric connectors.
3. Press the battery until a click is heard to lock it. Battery may be assembled even if the key is not inserted.
4. Proceed carefully and without too much strength to avoid damaging the electric connectors.



5. Tighten the safety screw.
6. Remove the key and store it in a safe place.



! DANGER – Do not ride the bicycle with the key inserted, to prevent the battery from falling out and avoid losing the key.

→ **CAUTION:** Before riding your bicycle, make sure that the battery is locked in place and charging port cap is closed.

→ **CAUTION:** before carrying the bicycle remove the battery and store it in a dry place. Protect the bicycle electric contacts from

atmospheric agents. We recommend using the battery housing lid, item 955.520.009.

3.4- Battery key

→ **CAUTION:** if you lose the keys, contact your dealer to replace the whole key lock.

3.5- Cleaning the battery

- Do not use thinner or other solvents to clean any of the products. These substances may damage the surfaces.
- Use a damp cloth, with the water well wrung-out, when cleaning the battery and plastic cover.
- Batteries are not guaranteed against natural wear or deterioration from normal use.
- This battery is designed to be fully waterproof and to be used when raining while properly installed on the bicycle. Do not put the battery in contact with water when not installed on the bicycle because the electric terminals, in these conditions, are not protected.
- Do not clean the battery using high pressure water jets. If the water penetrates inside the parts, some problems may result.
- Before cleaning the E-Bike, always remove the battery.

3.6- Charging the battery

The battery is prearranged and designed to be used with E-P3 Polini system only.

Charging can be carried out at any time regardless of the amount of charge remaining, but you should fully charge the battery at the following circumstances. (Be sure to use the dedicated charger when recharging the battery during these circumstances):

- The battery is not fully charged at the time of purchase. Before riding, be sure to charge the battery until it is fully charged.
- If the battery has become fully spent, charge it as soon as possible. If you leave the battery without charging it, it will deteriorate before its time.
- If the bicycle will not be ridden for a long period of time, store it away with approximately 70% battery capacity remaining. In addition, take care not to let the battery become completely empty by charging it for 2 hours every 3 months.

Charging the battery only

1. Turn the battery off
2. Connect the battery charger's power plug to the outlet
3. Insert the charging plug into the battery's charging port. Charge the battery on an indoors flat surface.



Charging the battery while installed onto the bicycle

- Turn the battery off
- Stabilize the bicycle to ensure that it does not collapse during charging
- Insert the battery charger power plug into the outlet.
- Insert the charging plug into the charging port on the battery mount.

NOTE: remember that a battery fully discharged needs 4-5 hours to fully charge



⚠ WARNING: charge the battery respecting the safety advises.

→ **CAUTION:** avoid any deposit of dirt on the connections of the battery chargers and connectors.

→ **CAUTION:** a possible interruption during the recharging operation does no damage the battery.

→ **CAUTION:** after every recharge, close the the rubber on the battery plug.



3.7- About the charger LED lamp

Charger connected into the outlet and battery under charge – RED Power led /RED charge led



Charger connected into the outlet and battery recharged (recharged ended) RED Power led /GREEN charge led

Time to recharge a dead battery is about 5 hours



3.8 Dual Battery

For this system use exclusively two Polini E-P3 batteries— Item 955.830.001. Switch both the batteries ON to activate the dual battery system. The system will manage the use of the energy of the batteries to send to the E-P3 motor. It is not necessary that both the batteries have the same level of charge; the system will manage the available energy using first the battery with more charge and then it will use simultaneously both the batteries and it will optimize automatically the consumption for the motor. You can use the bicycle with one battery installed only, the upper or the lower one. Charge the battery separately; you must use two rechargers if you want to charge them at the same time. To avoid any damage to the electrical contacts of the battery, if you install one battery only, cover the housing on the top or downtube by using the item 955.520.009.

4.0- DISPLAY

Using the display buttons, you perfectly set the system functions of the pedal-assist bicycle. Your hand may rest on the handlebar grip while the thumb activates the buttons of the display. The screens on the display provide information about the driving conditions and assistance.

⚠ATTENTION: to use the display while riding may distract the rider and accidents may result. Always follow the road regulation.

4.1- Controls

The functions of the system of the pedal-assist bicycle are adjusted through the buttons of the display.

Note: the display may be set by the manufacturer to be assembled on the right or left side of the handlebar. Consequently, the direction buttons are inverted.

Buttons and Joystick of the display.

Buttons	Functions
T1	Increase of the level of assistance; press for more than 3 seconds: walk assist mode activated
T2	Decrease of the level of assistance
T3	Joystick
▲	Upper screen
<	To enter next screen, exit from the modification mode and confirm.
■	Elaborate the highlighted value

>	To enter next right screen
▼	Down screen
T4	Switching the display ON/OFF
T5	Short pressure: lights ON Long pressure: lights OFF

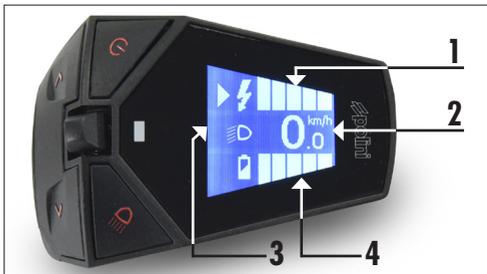


4.2- Displays

Displays offer different information. Lateral movements of the joystick switch to another page. Some pages show further screens that may be reached with vertical movement of the joystick.

The main screen shows the following information:

- 1- Display of the current assistance
- 2- Speed
- 3- Triangular symbol: assist-walk activated. Headlights symbol: it activates if the lights are ON.
- 4- Battery level indicator (each notch corresponds to 20% of the battery)



How to move in the display screens:

1. Screen symbol
2. Horizontal navigation position
3. Page content
4. Vertical navigation position: it indicates the following pages and displays the actual position.



Riding performance



Riding performance example

It displays the average Watt power generated by the rider.

Average speed of the distance travelled



Example of the average speed of the distance travelled

> average speed
It displays the average speed from the last reset of the data

Motor power



It displays the power provided by the pedal-assist electric motor in percentage respect to the maximum power

Maximum speed of the distance travelled



Example of the maximum speed of the distance travelled

> maximum speed
It displays the maximum speed from the last reset of the data

Distance travelled in assist-mode



Example of distance travelled in assist-mode
It displays the average of the range to be travelled.

Warning: the average of the range is calculated in accordance with the distances covered in the previous tours, so it is necessary to

ride some kms to modify the data. The average is influenced by the itinerary and by the level of assistance used.

Reset



Example of data reset.

Resetting of the trip data.
The trip data. (average and maximum speed are cleared and lost)

- Joystick (T3): to move downwards and activate RESET function
- Press the Joystick to cleared up the data.
- Switch the display off (do not switch the battery off) to save RESET in the motor.

Distance travelled



Example of distance travelled

It displays the distance travelled from the last reset of the data.

Many pages are included in this screen.

Total distance travelled



Example of total distance travelled

It shows the total distance covered with pedal-assist bicycle.

Another page follows to this screen

Total distance travelled/ maximum speed



Example of the maximum speed

It displays the maximum speed in accordance with the total distance travelled.

Bluetooth



NOTE! Currently Bluetooth does not have any active function.

Example of Bluetooth

It shows Bluetooth connection options

- OFF: Bluetooth is turned off
- Smartphone: connection to a phone
- Chest strap: connection to a chest strap

How to modify the current choice:

1. Move the Joystick backward and forwards → Value is displayed
2. With a vertical movement of the Joystick another option will be shown.
3. Press the Joystick to activate the option → Variation is activated
4. By moving the joystick on the right or on the left you move to the next page

4.3- Turning off

Turn the display off → Press button T4 for more than 2 seconds
→ The service unit turns OFF

NOTE: it is not allowed to turn it off if the bicycle is moving.

4.4- Headlights – install additional lights

Button T5 turns the lights ON and OFF, in accordance with the pedal-assist bicycle.

Turn the headlights ON

Shortly press button T5 → Headlights are ON → The enlightened icon indicates the normal lightening condition.

Turn the headlights OFF

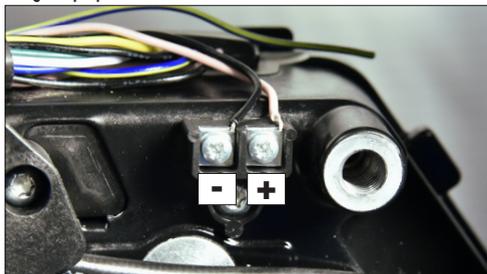
Press T5 button for more than 2 seconds → Headlights are OFF
→ The enlightened icon switches off.

Additional lights installation

The motor body is equipped with a plastic block for the light wiring that must have the following features:

1. Lights voltage: 6 Vdc
2. The sum of the light's powers must not exceed 8W

3. The block is provided with 2 cables fixing points, + (pink) and – (black). Connect the + of the motor to the + of the front and rear lights. Connect the - of the motor to the - of the front and rear lights.
4. To proceed with this connection, insert the 3+3 cables between the two small metallic plates placed on the plastic block and tight them using the proper screws



5.0- ASSIST-MODE ADJUSTMENT

The E-P3 electric motor of your bicycle with assist-pedal helps your performance. There are several levels of assistance at your disposal. You can travel without assistance too.

- Levels of assistance may be adjusted using the display (T1 / T2)

- Level chosen is immediately activated

Active level is available through the lightened sections on the main menu of the display

Level	Description
None	Normal bicycle. Motor is not activated.
Level 1	30% assistance recommended when travelling on level ground or long distance covered
Level 2	60% assistance recommended when travelling on level ground/gentle slope for medium/long distance covered
Level 3	120% assistance recommended when travelling on gentle slope/uphill for medium distance covered
Level 4	250% assistance recommended when travelling uphill for medium/short distance covered
Level 5	400% assistance recommended when travelling uphill for short distance covered

Turning the assist-mode ON

The display does not display any level of assistance. Press T1 button on the display → Electric motor assists in the pedalling → In the display of the level of assistance, the first segment lights on.

Increasing the assistance

Press button T1. Choose next level of assistance → Electric motor assists in the pedalling significantly → In the display of the level of assistance, moves to the next segment

Travelling without motor assistance

Press button T2 till no segments are displayed → You are travelling without motor assistance

5.1- Suggestions to optimize the range

- Pedal: slow pedalling consumes a lot of energy; maintain a pedalling frequency higher than 70 rpm to optimize the efficiency.

- Driving style: many hard braking and starts produce more consumption, when possible, prefer a constant speed.
- Gear shifting: when starting and climbing it is better to use lower gears, while it is better to use higher gears only on adequate route and with proper speed.
- Tires pressure: keep the tires with the maximum allowed pressure to improve the range.
- Temperature and battery: battery range decreases when temperature lowers (because the electric resistance increases) so in winter the range is reduced.
- Weight: reduce the bicycle weight and luggage at the minimum.

NOTE: if the battery charging level is low, the motor cannot exploit all its power. In this case, for a longer battery range, it is recommended to set a low level of pedal assistance.

5.2- Walk mode

To start or walking the e-bike you may use the WALK assist mode. Walk assist function may be activated for speed lower than 6 km/h and it can be used to walk the bicycle. When walking the bicycle, move closed to it. The WALK assist mode moves the bicycle.

⚠ATTENTION! The WALK assist mode moves the bicycle. Grab the handlebar and brake. Your strength and the Walking function may accelerate the bicycle significantly. Pedals may move and injury you during their movement! Do not use Walk assist mode for a long time.

Turn the walk assist mode ON

Keep button T1 pressed → Walk assist mode is activated and it moves the bicycle. → The triangle symbol of the walk assist mode is displayed in the main menu.

ATTENTION: level of assistance must not be zero.

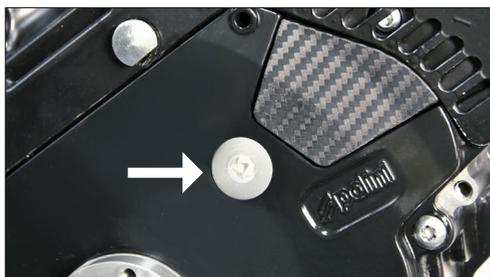
Turn the walk assist mode OFF

Release button T1 → Walk assist mode is OFF → The triangle symbol of the walk assist mode will not be displayed in the main menu anymore.

6.0- SERVICING – ERRORS

Lubricate the motor gear every 5000 km for maximum noise reduction.

- remove the crown-holder if necessary
- unscrew the cap of the grease tank and add about 2/3 grams of Polini grease. (item 955.435.001)
- Fit all the parts again paying attention to tight the crown holder screw properly (5/6Nm torque)



Display does not read the speed.

Verify the distance between speed sensor and magneto (maximum 15mm) in the position indicated by the line. If it is not enough or too much or if the speed sensor hasn't been properly connected the E-P3 motor works in the emergency mode.

In this case, loosen the screw of the magneto and fix the magneto on the ray so that it is at a correct distance respect to the speed sensor symbol. If even after this operation the speed has not been displayed, contact an authorized bicycles' dealer.

E-Bike does not work

First turn the e-bike off, remove the battery from its place (Section 3.3). Turn on end off the disconnected battery. Place the battery and turn the e-bike on. If it does not work contact your dealer.

6.1 - Cleaning the motor

It is forbidden to clean the parts of the E-P3 system using pressure water, pressure water jets or to immerse the motor in the water.

After washing the motor, carefully dry all the parts to avoid possible damages or malfunctioning. In case of problems coming from water infiltrations, immediately turn to an official dealer.

7.0- ASSEMBLY OF THE WATER BOTTLE HOLDER

Insert the water bottle supports in their housing on the battery.



Place the water bottle holder on the supports and screw the dowel using the key supplied till the connection feathers of the holder are fixed on the battery and the water bottle holder does not slide on the guide anymore.



Tight the upper dowel for your safety

The water bottle holder is a Polini patented product.



8.0-FIRMWARE UPDATE

Internet connection and a cable with micro USB outlet are required to update the firmware.

Remove the plastic cover, the aluminium cap and connect the cable to the plug in the right direction.



Updated Firmware are available on www.poliniebike.com
Besides the Firmware it is possible (with the cable connected to the motor) to download a software to modify the mounting side of the right or left display and, in case of variation of the tire size, to set the speed detector.

9.0- DISPOSAL

In accordance with the European 2012/19/EU guidelines (waste electrical appliances) and in accordance with the European 2006/66/EG guidelines (used or defective batteries), waste materials must be separately collected and recycled.

Old machines, spare parts or packaging are produced with recyclables materials. The owner is obliged to dispose them in accordance with the laws and the environmental impact.

Disposal information for countries outside the European Union



This symbol is valid in the European Union only. Follow the local regulation for the disposal of used batteries. In case of doubt, contact the place of purchase or a bicycles' dealer.

10.0- WARRANTY

Register your device on www.poliniebike.com to activate the warranty and to receive updates and novelty of the E-P3 motor.

CUSTOMER SERVICE: ebike@polini.com

- Use Polini Motori original spare parts only
 - Manufacturer is free to modify the products to improve their characteristic and performance.
-

DICHIARAZIONE CE DI CONFORMITA'

ai sensi del Allegato II parte 1 sezione A della Direttiva Macchine 2006/42/CEE
ricepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

IL FABBRICANTE: Polini Motori S.p.A.
SEDE LEGALE ED OPERATIVA : Via Piave, 30 – 24022 Alzano Lombardo (BG)

DICHIARA:

Che il sistema per E-Bike denominato **Polini E-P3 (955.002.001 – 955.002.002 – 955.002.003)** costruito presso la propria sede operativa è composto da seguenti componenti:

MOTORE	BATTERIA	CARICA BATTERIA
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è conforme ai requisiti essenziali di sicurezza e di salute relativi alla progettazione e alla costruzione della macchina e dei componenti di sicurezza ai sensi dell'Allegato I – Direttiva Macchine 2006/42/CE recepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

LE SEGUENTI NORME ARMONIZZATE SONO STATE UTILIZZATE PER LA CORRETTA IMPLEMENTAZIONE DEI REQUISITI ESSENZIALI DI SICUREZZA E DI SALUTE DELL'ALLEGATO I DIRETTIVA MACCHINE 2006/42/CE

Norma	Descrizione
UNI EN ISO 12100:2010	"Sicurezza del macchinario - Principi generali di progettazione - Valutazione del rischio e riduzione del rischio"
CEI EN 60335-1:2013	Sicurezza degli apparecchi elettrici d'uso domestico e similare - Sicurezza - Parte 1: Norme generali
CEI EN 60335-2-29:2016	Elettrodomestici per la casa e simili - Sicurezza - Parte 2-29: Particolarità dei caricabatterie
CEI EN 60529: 2014 (CEI 70-1)	Gradi di protezione degli involucri apparecchiature elettriche "CODICE IP54"
UNI EN 15194 :2012	Biciclette elettriche a pedalata assistita - Biciclette EPAC

LE DIRETTIVE EUROPEE E LEGGI ITALIANE CHE SONO STATE UTILIZZATE

DIRETTIVE EUROPEE

2006/42 CE (Direttiva Macchine)
2014/30/UE (EMC)
2002/24/CE (Omologazione dei veicoli a motore a due o tre ruote)

LEGGI ITALIANE

D.Lgs.17/2010 (Direttiva Macchine)
D.Lgs. 80/2016 (Compatibilità Elettromagnetica)

Persona autorizzata a costituire il Fascicolo Tecnico

Nome: Denis
Cognome: Polini
Indirizzo: Via Piave, 30 – 24022 Alzano Lombardo (BG)

PERSONA AUTORIZZATA
(Firma)

Denis Polini

Alzano Lombardo (BG) li Ottobre 2017

FIRMATARIO
(Legale Rappresentante)

Polini Franco



PI 722
2.3
03A19



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