Quad Lock QLA-PBX

Quad Lock Waterproof 12V to USB Smart Adaptor Instruction Manual

Model: QLA-PBX

PRODUCT OVERVIEW

The Quad Lock Waterproof 12V to USB Smart Adaptor is designed to provide a reliable power source for your Quad Lock Weatherproof Wireless Charging Head (not included) from various 12V-24V systems, such as those found in motorcycles, boats, and caravans.

This smart adaptor features multiple switching states for versatile use and includes built-in safety features like reverse polarity protection and an in-line fuse.

Key Features:

- Connects to SAE connector or battery terminal.
- Multiple switching states (On, Off, Auto) to prevent battery drain.
- In-line fuse and reverse polarity protection for enhanced safety.
- IP66 Waterproof rated, suitable for wet conditions.
- Includes 1.5m USB-A female port, 10cm SAE cable, 1m SAE to ring terminal cable with in-line fuse, USB-A sealing boot, and 5 x Zip Ties.

Image: The Quad Lock Waterproof 12V to USB Smart Adaptor, showing the main unit and connected cables.

Package Contents

- 1 x Quad Lock Waterproof 12V to USB Smart Adaptor (QLA-PBX)
- 1 x 1.5m USB-A female port cable (hard-wired)
- 1 x 10cm SAE cable (hard-wired)
- 1 x 1m SAE to ring terminal cable with in-line fuse
- 1 x USB-A sealing boot
- 5 x Zip Ties

Setup and Installation

Follow these steps to properly install your Quad Lock Waterproof 12V to USB Smart Adaptor:

1. **Safety First:** Before beginning installation, ensure the vehicle's ignition is off and the battery is disconnected to prevent electrical shorts or damage.

2. **Connect to Power Source:**

   - If connecting to a battery, use the provided 1m SAE to ring terminal cable. Connect the ring terminals to the positive (+) and negative (-) battery posts. Ensure correct polarity (red to positive, black to negative). The in-line fuse provides protection.
   - If connecting to an existing SAE connector, simply plug the 10cm SAE cable from the Smart Adaptor into it.

Image: The Smart Adaptor connected to a motorcycle battery using the ring terminal cable.

3. **Mount the Adaptor:** Secure the Smart Adaptor unit in a suitable, protected location using the provided zip ties. Ensure it is away from moving parts, excessive heat, and direct water spray, although it is IP66 rated.

Image: The Smart Adaptor secured to a motorcycle frame using zip ties.

4. **Connect Charging Head:** Plug your Quad Lock Weatherproof Wireless Charging Head (or other USB-A powered device) into the USB-A female port of the Smart Adaptor. Use the provided USB-A sealing boot to protect the connection from water and dust.

5. **Reconnect Battery:** Once all connections are secure and the adaptor is mounted, reconnect your vehicle's battery.

OPERATING INSTRUCTIONS

The Smart Adaptor features a toggle switch with three positions: ON, OFF, and AUTO. Understand each mode for optimal use:

Switch Position	Function	Application

Switch Position	Function	Application
ON	Power ON	Provides constant power when connected to a 12V - 24V supply. Ideal for boats, caravans, or applications where continuous power is desired regardless of engine status.
OFF	Power OFF	Completely cuts power to the connected device. Use this mode when the device is not needed or for long-term storage to prevent any potential battery drain.
AUTO	Power ON (Conditional)	Keeps the device off until the input voltage rises above 13.5V (indicating the engine is running and charging the battery) and turns off when the input voltage drops below 12.5V. Perfect for motorcycles, ATVs, and other automotive applications to avoid battery drain when the engine is off.

SWITCH POSITION	FUNCTION	APPLICATION
ON	POWER ON	Connected to constant 12V - 24V supply, eg. boats, caravan etc.
OFF	POWER OFF	
AUTO	POWER ON	Automotive applications that depend on engine running, eg. motorcycle

Image: Close-up view of the Smart Adaptor's switch, showing the 'ON', 'OFF', and 'AUTO' settings.

Maintenance

To ensure the longevity and optimal performance of your Quad Lock Waterproof 12V to USB Smart Adaptor, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check all cable connections for tightness and signs of wear or corrosion. Ensure the USB-A sealing boot is properly seated to maintain water resistance.
- **Cleaning:** Wipe the adaptor and cables with a damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Fuse Check:** In the rare event of a power issue, check the in-line 3A fast blow fuse. If blown, replace it with a fuse of the same rating.
- **Storage:** If storing the vehicle or device for an extended period, switch the adaptor to the OFF position to prevent any minimal parasitic battery drain.

Troubleshooting

If you encounter issues with your Smart Adaptor, refer to the following common problems and solutions:

- **No Power to Device:**

  - Ensure the Smart Adaptor switch is in the 'ON' or 'AUTO' position.
  - Check all cable connections to the battery or SAE connector for secure contact.
  - Verify the vehicle's battery has sufficient charge.
  - Inspect the in-line fuse for continuity. Replace if blown.
  - If in 'AUTO' mode, ensure the engine is running and the voltage is above 13.5V.

- **Device Not Charging Optimally:**

  - Ensure the connected charging head or device is functioning correctly.
  - Check the USB-A cable connecting the charging head to the adaptor for damage.

- **Adaptor Feels Warm:**

  - It is normal for the adaptor to feel slightly warm during operation. If it becomes excessively hot, disconnect it immediately and contact support.

If the problem persists after attempting these solutions, please contact Quad Lock customer support for further assistance.

Specifications

Attribute	Value
Brand	Quad Lock

Attribute	Value
Model	QLA-PBX
Item Weight	6.7 ounces
Package Dimensions	6.93 x 2.6 x 1.93 inches
Waterproof Rating	IP66
Input Voltage	12V - 24V
Fuse Rating	3A (in-line fast blow)
Output Port	USB-A female

Warranty and Support

Quad Lock products are designed for durability and performance. For information regarding warranty coverage, product registration, or technical support, please visit the official Quad Lock website or contact their customer service directly.

Online Resources:
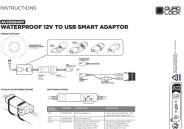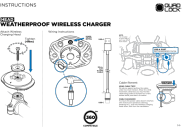
- Official Website: www.quadlockcase.com
- Support Page: Refer to the website for contact details and FAQs.

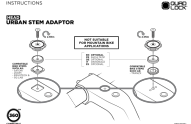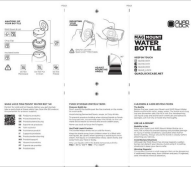Always ensure you are using genuine Quad Lock accessories for optimal performance and safety.

Related Documents - QLA-PBX

	Quad Lock Waterproof 12V to USB Smart Adaptor - Installation and Usage Instructions Comprehensive guide to installing and operating the Quad Lock Waterproof 12V to USB Smart Adaptor. Covers wiring options, connection to 12-24V DC power sources, switching modes (ON, OFF, AUTO), and attachment to motorbike frames. Includes output specifications and application details.
	Quad Lock Weatherproof Wireless Charger Instructions Comprehensive instructions for attaching, wiring, and using the Quad Lock Weatherproof Wireless Charger, including LED status indicators and best practices for cable management.

	Quad Lock 12V-24V Waterproof Wireless Charger (QL-5764) Installation and Compliance Guide A comprehensive guide detailing the installation, wiring, and regulatory compliance for the Quad Lock 12V-24V Waterproof Wireless Charger, model QL-5764. Includes steps for phone attachment/detachment, what's in the box, wiring diagrams, LED status indicators, and essential compliance information for CE, UKCA, FCC, and IC.
	Quad Lock Urban Stem Adaptor Installation Guide Concise and SEO-optimized installation guide for the Quad Lock Urban Stem Adaptor, detailing compatibility, torque specifications, and essential safety warnings for cyclists.
	Quad Lock Bar Clamp Medium Installation Instructions Step-by-step instructions for installing the Quad Lock Bar Clamp Medium, including spacer selection and tightening specifications.
	Quad Lock MAG Mount Water Bottle: Features, Care, and Usage Guide Comprehensive guide to the Quad Lock MAG Mount Water Bottle, covering its anatomy, safe food storage, cleaning instructions, and its functionality as a secure phone mount. Ideal for keeping beverages at the desired temperature.