DC/DC Converter
IN:8-23V   OUT:5V3A   max
IN/输入   输出/OUT
⊕ ⊖   type-c

MEIRIYFA 12V to 5V USB Converter Datasheet

1. Product Overview The MEIRIYFA DC 12V to USB Type-C 5V converter module is a compact and efficient step-down DC-DC voltage regulator designed for automotive and electronic applications. This converter allows devices requiring 5V to be powered from a DC source ranging from 8V to 23V, making it suitable for various applications such as GPS navigation, car audio, surveillance systems, and more.

2. Features

- Converts DC 8V-23V to stable DC 5V/3A output.
- Type-C USB charging port.
- High efficiency conversion rate up to 96%.
- Built-in protection against over-current, over-voltage, over-temperature, and short-circuits.
- Encapsulated in epoxy resin for waterproofing, shock proofing, and moisture resistance.
- Compact size, easy installation, and reliable operation.

3. Electrical Specifications

Parameter	Specification
Input Voltage	DC 8V - 23V
Output Voltage	DC 5V
Output Current	3A max
Output Power	15W max
Conversion Efficiency	Up to 96%
Cable Length	50 cm / 19.7 inches

4. Physical Characteristics

Parameter	Specification
Dimensions	30 x 20 x 20 mm
Weight	32 g
Shell Material	ABS Plastic
Connector Type	USB Type-C
Wire Configuration	Red (Positive), Black (Negative)

5. Protection Features

- **Over-voltage Protection**: Prevents excessive voltage from damaging the circuit.
- **Over-current Protection**: Limits the output current to prevent device overload.
- **Over-temperature Protection**: Automatically reduces power or shuts down to prevent overheating.
- **Short-circuit Protection**: Protects the circuit in case of accidental shorting.

6. Applications

- GPS Navigation
- Dash Cameras / Driving Recorders
- Car Radios & Audio Systems
- LED Displays & Taxi Advertising Screens
- Walkie-Talkies & Surveillance Systems

7. Package Contents

- 1x MEIRIYFA 12V to 5V Type-C USB Converter Module

8. Manufacturer Information

- Brand: MEIRIYFA
- Manufacturer: Shenzhen Milidianzi
- Model Number: e0e714d2-10c1-456d-90b2-75ce915b573a
- ASIN: B0BJ5WF696

9. Installation Instructions

1. Identify the input power source (8V-23V DC).
2. Connect the red wire to the positive terminal of the power source.
3. Connect the black wire to the negative terminal of the power source.
4. Plug your USB Type-C device into the output port.
5. Ensure proper ventilation for heat dissipation during operation.

10. Safety Notes

- Do not exceed the specified input voltage range.
- Avoid exposure to extreme heat or direct sunlight for prolonged periods.
- Keep away from water unless properly sealed in a waterproof enclosure.
- Disconnect power before making wiring connections.

For additional inquiries, please contact the manufacturer or authorized distributors.