

# UWE-12/10-Q48NB-C

In Production

Recommended

RoHS

## Applications

|                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                              |
| Specific Applications   | Consumer equipment, Industrial Equipment<br>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product. |

## Features

12V, 10A, Single Output Isolated 1/8 Brick DC-DC Converter, 18-75V Input Range, Negative polarity, Baseplate

## Appearance & Shape



**Attention**  
1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.  
2.This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

# UWE-12/10-Q48NB-C



## Specifications

|       |                        |
|-------|------------------------|
| Brand | Murata Power Solutions |
|-------|------------------------|

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output power (W)Max        | 120W                                                                                                                                                                               |
| Vin(V)                     | 18V to 75V                                                                                                                                                                         |
| Vin(V)typ                  | 48V                                                                                                                                                                                |
| Vout(V)                    | 12V                                                                                                                                                                                |
| Vout(V)typ                 | 12V                                                                                                                                                                                |
| LineRegulation (%)         | 0.15%                                                                                                                                                                              |
| LoadRegulation (%)         | 0.075%                                                                                                                                                                             |
| Isolation Voltage (V)      | 2250V                                                                                                                                                                              |
| Efficiency (%)             | 91.5%                                                                                                                                                                              |
| Size(mm)W                  | 58.42mm                                                                                                                                                                            |
| Size(mm)L                  | 22.86mm                                                                                                                                                                            |
| Size(mm)T                  | 12.8mm                                                                                                                                                                             |
| Operatingtemperature(degC) | -40°C to 85°C                                                                                                                                                                      |
| Outputs (#)                | 1                                                                                                                                                                                  |
| Iout(A)Max                 | 10A                                                                                                                                                                                |
| Form                       | 1/8 Brick                                                                                                                                                                          |
| Package                    | DIP                                                                                                                                                                                |
| Productseries              | UWE                                                                                                                                                                                |
| Product Series Features    | Quarter-brick DOSA-Compatible, Isolated DC-DC Converters                                                                                                                           |
| Safety Approval            | These devices are designed to meet UL/CSA60950 and IEC/EN60950 safety standards, including BASIC insulation requirements. Q48 models are CE marked (meet the requirements of LVD). |

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