

- 26mm height
- 3 year Warranty
- Peak Load capable
- Light weight
- Output 1 isolated from outputs 2 & 3

MTW Series

15W to 60W Low Profile Triple Output Power Supplies

Key Market Segments & Applications

- Factory Automation
- Test & Measurement
- Automated Service
- Portable Equipment

MTW Features and Benefits

Features

- Low Profile
- Three Year Warranty
- Output 1 is isolated from outputs 2 & 3

Benefits

- Assists System Integration
- Low Cost of Ownership
- Outputs V2 & V3 can be connected in series

Specifications

| ITEMS | MODELS | | MTW15-51212 | MTW30-51212 | MTW60-51212 |
|--------------------------------|--------|-----|---|-----------------|----------------------|
| | | | MTW15-51515 | MTW30-51515 | MTW60-51515 |
| Input Voltage Range | | V | 85 - 265VAC (47 - 440Hz) | | |
| Input Current Typ | (1) | A | 0.42 / 0.25 | 0.8 / 0.4 | 1.4 / 0.8 |
| Inrush Current | (1) | A | 25 / 50 | 20 / 40 | 20 / 40 |
| Leakage Current (240VAC, 60Hz) | | mA | 0.75mA Max | | |
| Max Output Power | | W | 16 | 30 | 60 |
| | | | 17.5 | 33 | 62.5 |
| Efficiency (Typ) | | % | 71 | 76 | 76 |
| Hold Up Time | (1) | ms | 20 / 150 | 20 / 140 | 10 / 20 |
| Output Voltage Adjustment | | - | Fixed | | |
| Overcurrent Protection | | - | Yes, automatic recovery. Hiccup style on MTW30 & 60 | | |
| Overvoltage Protection | | V | V1: Zener Clamp | V1: Zener Clamp | V1 & V2: Zener Clamp |
| Operating Temperature | | - | -20°C start up. -10°C to +60°C, derating linearly to 70% load above 50°C | | |
| Storage Temperature | | - | -30°C to +75°C | | |
| Humidity (Non condensing) | | - | 10 - 90%RH (Operating & storage) at 35°C | | |
| Cooling | | - | Convection | | |
| Withstand Voltage | | - | Input to ground 2kVAC, Input to output 3kVAC, Output to ground 500VAC | | |
| Vibration (non operating) | | - | 5 - 10Hz: 10mm amplitude, 10 - 200Hz: 2G (19.6m/s ²)10m sweep time, 3 axis, 1 hour each | | |
| Shock | | - | Acceleration: 60G (588m/s ²) Half sine wave, 6 - 16ms pulse duration, 3x each direction | | |
| Safety Agency Approvals | | - | IEC/UL/CSA/EN62368-1, 60950-1, CE Mark | | |
| Immunity | | - | EN61000-4-2 (Lv 4), -3, -4 (Lv 3), -5 (Lv 4), -6 (Lv 3), -8 (Lv 4), -11 | | |
| Conducted EMI | | - | FCC-Class B, EN55011-B, EN55022-B | | |
| Weight (Typ) | | g | 150 | 210 | 330 |
| Size (WxHxL) | | mm | 50 x 26 x 127 | 65 x 26 x 140 | 83 x 26 x 185 |
| Warranty | | yrs | 3 | | |

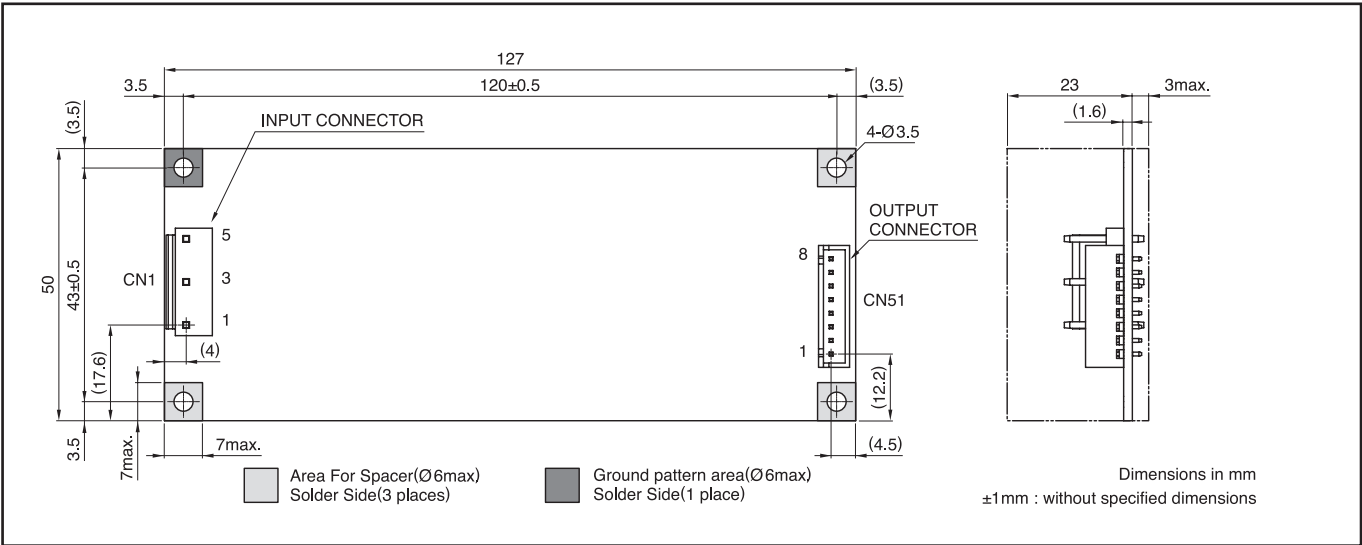
Notes:

(1) 100/240VAC

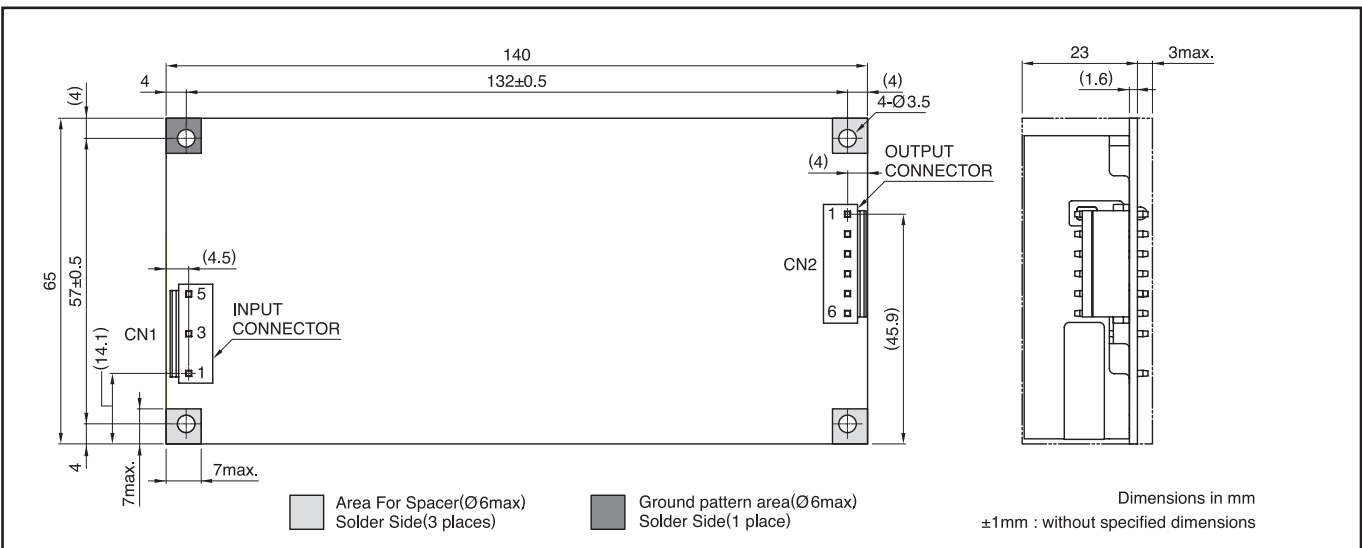
| Model Selector | | | | | | | |
|----------------|--------|-------------|----------------|---------------------|---------------------|------------------|---------------------|
| Model | Output | Voltage (V) | Regulation | Minimum Current (A) | Maximum Current (A) | Peak Current (A) | Ripple & Noise (mV) |
| MTW15-51212 | V1 | 5V | 4.75 - 5.25V | 0 | 2.0 | 3.0 | 120 |
| | V2 | 12V | 11.4 - 12.6V | 0 | 0.3 | 0.6 | 150 |
| | V3 | -12V | 11.4 - 12.6V | 0 | 0.2 | 0.3 | 150 |
| MTW15-51515 | V1 | 5V | 4.75 - 5.25V | 0 | 2.0 | 3.0 | 120 |
| | V2 | 15V | 14.4 - 15.6V | 0 | 0.3 | 0.6 | 150 |
| | V3 | -15V | 14.4 - 15.6V | 0 | 0.2 | 0.3 | 150 |
| MTW30-51212 | V1 | 5V | 4.9 - 5.3V | 0 | 3 | 4.5 | 120 |
| | V2 | 12V | 11.4 - 12.6V | 0 | 1.2 | 2.0 | 150 |
| | V3 | -12V | 11.4 - 12.6V | 0 | 0.3 | 0.45 | 150 |
| MTW30-51515 | V1 | 5V | 4.9 - 5.3V | 0 | 3 | 4.5 | 120 |
| | V2 | 15V | 14.25 - 15.75V | 0 | 0.8 | 2.0 | 150 |
| | V3 | -15V | 14.25 - 15.75V | 0 | 0.3 | 0.45 | 150 |
| MTW60-51212 | V1 | 5V | 4.9 - 5.3V | 0 | 5.0 | 7.0 | 120 |
| | V2 | 12V | 11.4 - 12.6V | 0 | 2.5 | 3.5 | 150 |
| | V3 | -12V | 11.4 - 12.6V | 0 | 0.5 | 0.7 | 150 |
| MTW60-1515 | V1 | 5V | 4.9 - 5.3V | 0 | 5.0 | 7.0 | 120 |
| | V2 | 15V | 14.25 - 15.75V | 0 | 2.0 | 3.5 | 150 |
| | V3 | -15V | 14.25 - 15.75V | 0 | 0.5 | 0.7 | 150 |

| Mating Connectors | | | |
|-------------------|-------|-----------|----------|
| | Model | Input | Output |
| Connectors | MTW15 | B3P5-VH-B | B8B-XH-2 |
| JST | MTW30 | B3P5-VH-B | B6P-VH-B |
| | MTW60 | B3P5-VH-B | B8P-VH-B |

Outline Drawing MTW15 Series



Outline Drawing MTW30 Series





TDK-Lambda France SAS

Tel: +33 1 60 12 71 65
 tlf.fr.powersolutions@tdk.com
 www.emea.lambda.tdk.com/fr



Italy Sales Office

Tel: +39 02 61 29 38 63
 tlf.it.powersolutions@tdk.com
 www.emea.lambda.tdk.com/it



Netherlands

tlf.nl.powersolutions@tdk.com
 www.emea.lambda.tdk.com/nl



TDK-Lambda Germany GmbH

Tel: +49 7841 666 0
 tlq.powersolutions@tdk.com
 www.emea.lambda.tdk.com/de



Austria Sales Office

Tel: +43 2256 655 84
 tlq.at.powersolutions@tdk.com
 www.emea.lambda.tdk.com/at



Switzerland Sales Office

Tel: +41 44 850 53 53
 tlq.ch.powersolutions@tdk.com
 www.emea.lambda.tdk.com/ch



Nordic Sales Office

Tel: +45 8853 8086
 tlq.dk.powersolutions@tdk.com
 www.emea.lambda.tdk.com/dk



TDK-Lambda UK Ltd.

Tel: +44 (0) 12 71 85 66 66
 tlu.powersolutions@tdk.com
 www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.

Tel: +9 723 902 4333
 tli.powersolutions@tdk.com
 www.emea.lambda.tdk.com/il-en



TDK-Lambda Americas

Tel: +1 800-LAMBDA-4 or 1-800-526-2324
 tla.powersolutions@tdk.com
 www.us.lambda.tdk.com



TDK Electronics do Brasil Ltda

Tel: +55 11 3289-9599
 sales.br@tdk-electronics.tdk.com
 www.tdk-electronics.tdk.com/en



TDK-Lambda Corporation

Tel: +81-3-6778-1113
 www.jp.lambda.tdk.com



TDK-Lambda (China) Electronics Co. Ltd.

Tel: +86 21 6485-0777
 tlc.powersolutions@tdk.com
 www.lambda.tdk.com.cn



TDK-Lambda Singapore Pte Ltd.

Tel: +65 6251 7211
 tfs.marketing@tdk.com
 www.sg.lambda.tdk.com



TDK India Private Limited, Power Supply Division

Tel: +91 80 4039-0660
 mathew.philip@tdk.com
 www.sg.lambda.tdk.com

