

- 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 <sup>2</sup> )10m sweep time, 3 axis, 1 hour each |                 |                      |
| Shock                          |        | -   | Acceleration: 60G (588m/s <sup>2</sup> ) 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 |





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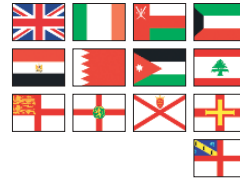
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