

## Low Profile Triple Output

### Features

- ◆ 26mm height
- ◆ Outputs 2 and 3 isolated from output 1
- ◆ Universal Input (85 - 265VAC)
- ◆ Low Profile
- ◆ Wattbox design on LWT



### Key Market Segments & Applications



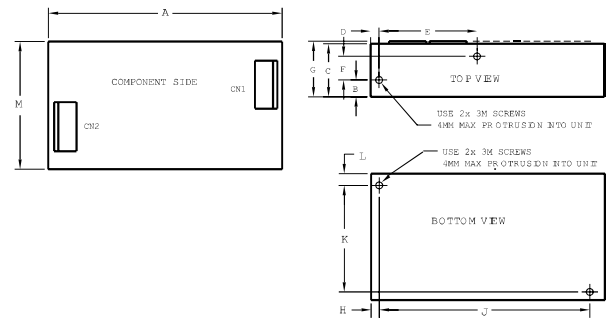
| Specifications                 |    |                                                                        |              |         |
|--------------------------------|----|------------------------------------------------------------------------|--------------|---------|
| Model                          |    | LWT15H                                                                 | LWT30H       | LWT50H  |
| Max Output Power (typ)         | W  | 17                                                                     | 30           | 50      |
| Efficiency (Typ)               | %  | 72                                                                     | 73           | 72      |
| AC Input Voltage range         | -  | 85 - 265VAC (47 - 440Hz)                                               |              |         |
| DC Input Voltage range         | -  | 110 - 350VDC                                                           | 110 - 330VDC |         |
| Input Current Typ (100/200VAC) | A  | 0.4/0.22                                                               | 0.7/0.42     | 1.2/0.7 |
| Inrush Current (110/200VAC)    | A  | 14/28                                                                  | 16/32        | 16/32   |
| Output 1 Voltage Adjustment    | -  | 5V: 5 to 5.25V, 12V: 12 to 12.6V, 15V: 15V to 15.75V                   |              |         |
| Output Voltage Accuracy        | -  | Output 2 & 3 $\pm 5\%$                                                 |              |         |
| Temperature Coefficient        | -  | Output 1 < 1%, Output 2 or 3, <2% at 0 - 60°C                          |              |         |
| Line Regulation                | -  | 1%                                                                     |              |         |
| Load Regulation                | -  | 2%                                                                     |              |         |
| Ripple & Noise                 | -  | Output 1: 100mV, Outputs 2 & 3: 150mV                                  |              |         |
| Overcurrent Protection         | -  | >105%                                                                  |              |         |
| Overvoltage Protection         | V  | Main output only: 5.75 - 6.75V, manual reset                           |              |         |
| Hold Up Time (Typ at 100VAC)   | ms | 20                                                                     |              |         |
| Series Operation               | -  | Possible                                                               |              |         |
| Operating Temperature          | -  | LWT: 0°C to +60°C, derate as follows: 40°C: 100%, 50°C: 80%, 60°C: 60% |              |         |
| Storage Temperature            | °C | -30 to +85°C                                                           |              |         |
| Operating Humidity             | -  | 30 - 90% RH (Non condensing)                                           |              |         |
| Storage Humidity               | -  | 10 - 95% RH (Non condensing)                                           |              |         |
| Cooling                        | -  | Convection                                                             |              |         |
| Withstand Voltage              | -  | Input to Gnd 2kVAC Input to Output 3kVAC (20mA)                        |              |         |
| Isolation Resistance           | -  | >100M at 25C & 70%RH, Output to Ground 500VDC                          |              |         |
| Vibration (non operating)      | -  | 10-55Hz(1 min) <19.6m/s <sup>2</sup> (1 hr)                            |              |         |
| Shock                          | -  | 196.1m/s <sup>2</sup>                                                  |              |         |
| Safety Agency Approvals        | -  | UL60950-1, CSA60950-1, EN60950-1, CE LVD                               |              |         |
| Conducted EMI                  | -  | VDE Class B, FCC Class B                                               |              |         |
| Weight (Typ)                   | g  | 220                                                                    | 300          | 400     |
| Size (WxHxD)                   | mm | Please refer to outline drawings                                       |              |         |
| Warranty                       | -  | One Year                                                               |              |         |

Note: See Installation Manual for full details, test methods of parameters and application notes

## Options

| Model      | Output | Voltage | Min Current | Max Current |
|------------|--------|---------|-------------|-------------|
| LWT15H-522 | V1     | 5V      | 0.5         | 3.0         |
|            | V2     | +12V    | 0.0         | 0.6         |
|            | V3     | -12V    | 0.0         | 0.4         |
| LWT15H-5FF | V1     | 5V      | 0.5         | 3.0         |
|            | V2     | +15V    | 0.0         | 0.6         |
|            | V3     | -15V    | 0.0         | 0.4         |
| LWT15H-525 | V1     | 5V      | 0.5         | 3.0         |
|            | V2     | +12V    | 0.0         | 0.6         |
|            | V3     | -5V     | 0.0         | 0.4         |
| LWT30H-522 | V1     | 5V      | 0.7         | 5.0         |
|            | V2     | +12V    | 0.0         | 1.2         |
|            | V3     | -12V    | 0.0         | 0.6         |
| LWT30H-5FF | V1     | 5V      | 0.7         | 5.0         |
|            | V2     | +15V    | 0.0         | 1.2         |
|            | V3     | -15V    | 0.0         | 0.6         |
| LWT30H-525 | V1     | 5V      | 0.7         | 5.0         |
|            | V2     | +12V    | 0.0         | 1.2         |
|            | V3     | -5V     | 0.0         | 0.6         |
| LWT50H-522 | V1     | 5V      | 1.0         | 8.0         |
|            | V2     | +12V    | 0.0         | 1.5         |
|            | V3     | -12V    | 0.0         | 1.0         |
| LWT50H-5FF | V1     | 5V      | 1.0         | 8.0         |
|            | V2     | +15V    | 0.0         | 1.5         |
|            | V3     | -15V    | 0.0         | 1.0         |
| LWT50H-525 | V1     | 5V      | 1.0         | 8.0         |
|            | V2     | +12V    | 0.0         | 1.5         |
|            | V3     | -5V     | 0.0         | 1.0         |

## LW Outline Drawing



DIMENSIONS:

| MODEL | A               | B             | C              | D              | E                | F              | G              | H              | J                | K               | L              | M              | N | MODEL | WEIGHT |
|-------|-----------------|---------------|----------------|----------------|------------------|----------------|----------------|----------------|------------------|-----------------|----------------|----------------|---|-------|--------|
| LWT15 | 5.03<br>(128.0) | .31<br>(7.9)  | .98<br>(25.0)  | .15<br>(3.8)   | 1.811<br>(46.0)  | .433<br>(11.0) | 1.02<br>(26.0) | .15<br>(3.8)   | 3.897<br>(99.0)  | 1.988<br>(50.5) | .21<br>(5.3)   | 2.34<br>(59.9) |   | LWT15 | .50    |
| LWT30 | 6.29<br>(160.0) | .47<br>(12.0) | .98<br>(25.0)  | 1.77<br>(45.0) | 3.937<br>(99.9)  | .314<br>(8.0)  | 1.02<br>(26.0) | .66<br>(17.0)  | 5.433<br>(138.0) | .905<br>(23.0)  | 1.69<br>(43.0) | 2.75<br>(70.0) |   | LWT30 | .70    |
| LWT50 | 6.29<br>(159.7) | .35<br>(8.8)  | 1.02<br>(26.0) | .39<br>(10.0)  | 4.605<br>(117.5) | .433<br>(11.0) | -              | 1.67<br>(42.4) | 3.602<br>(91.5)  | 3.228<br>(82.0) | .31<br>(7.8)   | 3.62<br>(92.0) |   | LWT50 | 1.00   |

1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS IN PARENTHESES ARE IN MM.  
2. 4MM 3 TAPPED HOLES FOR CUSTOMER MFG.  
SCREWS MUST NOT PROTRUDE INTO P.C.B. BY MORE THAN .15 (4) MAX.

## Other Industrial Products

|     |                                      |
|-----|--------------------------------------|
| HWS | 15W-1500W Single output              |
| ZWQ | 80W-170W Quad output                 |
| ZP  | 20W-60W Single, dual & triple output |
| LS  | 25W-150W Single output, low cost     |
| MTW | 15W-60W Triple output                |

For Additional Information, please visit  
<https://product.tdk.com/info/en/products/power/index.html>

