

## 40-65W 90-305V AC-DC Power Supplies

### Features

- ◆ Accepts 115/230/277VAC Nominal Inputs
- ◆ DIN Rail Mount Option
- ◆ Global Safety Agency Compliance
- ◆ <150mW Off-Load Power Consumption
- ◆ DOE Efficiency Level VI, ErP Tier 2
- ◆ Class 2 24V Model to UL1310



### Key Market Segments & Applications



### Specifications

| Model                        |      | CSW65                                                                      |
|------------------------------|------|----------------------------------------------------------------------------|
| Input Voltage range          | -    | 90 - 305VAC (47 - 63Hz)                                                    |
| Inrush Current (230VAC)      | A    | Less than 65A, 25°C ambient cold start                                     |
| Input Current (115/230VAC)   | A    | 2 / 1                                                                      |
| Hold Up Time (Typ)           | ms   | >10ms at 115VAC input                                                      |
| Off-Load Power Consumption   | W    | <150mW                                                                     |
| Average Efficiency           | %    | 5V: 87.2%, 12-54V: 89%                                                     |
| Temperature Coefficient      | %/°C | ±0.05%/°C                                                                  |
| Output Voltage Accuracy      | %    | ±1%                                                                        |
| Output Adjustment Range      | -    | None                                                                       |
| Remote Sense                 | -    | No                                                                         |
| Minimum Load                 | A    | None                                                                       |
| Output Regulation            | %    | 5-24V: ±3%, 28-54V: ±2%                                                    |
| Ripple & Noise               | %    | See Model Selector                                                         |
| Overcurrent Protection       | -    | 105 - 160%, Auto-Recovery                                                  |
| Overvoltage Protection       | V    | See Model Selector (Cycle AC to reset)                                     |
| Operating Temperature        | °C   | -10 to +70°C derate linearly to 50% load from 50 to 70°C*                  |
| Storage Temperature          | °C   | -20 to +85°C                                                               |
| Humidity (non condensing)    | %RH  | 5 - 95%RH                                                                  |
| Cooling                      | -    | Convection                                                                 |
| Withstand Voltage            | VAC  | Input to Ground 1.5kVAC, Input to Output 3kVAC<br>Output to Ground 500VDC  |
| Isolation Resistance         | MΩ   | >20MΩ at 25C & 70%RH, Output to Ground 500VDC                              |
| Vibration (non operating)    | -    | 23.52m/s <sup>2</sup> (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour) |
| Shock                        | -    | < 196.1 m/s <sup>2</sup> (20G)                                             |
| Safety Agency Certifications | -    | UL/CSA/IEC/EN60950-1, UL1310 Class 2 (1), CE Mark                          |
| Conducted & Radiated EMI     | -    | EN55032-B, FCC Class B                                                     |
| Immunity                     | -    | EN55024                                                                    |
| Weight (Typ)                 | g    | U channel: 250, /A: 270, /D: 290                                           |
| Size (WxLxH) U-Channel       | in   | 2.5 x 4.75 x 1.5"                                                          |
|                              | mm   | 63.5 x 120.7 x 38.1mm                                                      |
| Warranty                     | yrs  | Three Years                                                                |

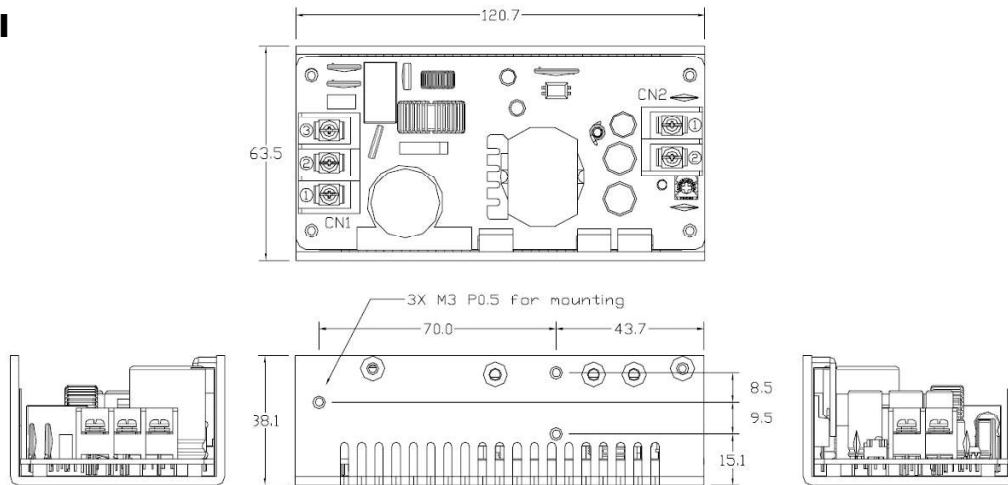
Note:

\* Derate linearly to 90% load from 0°C to -10°C

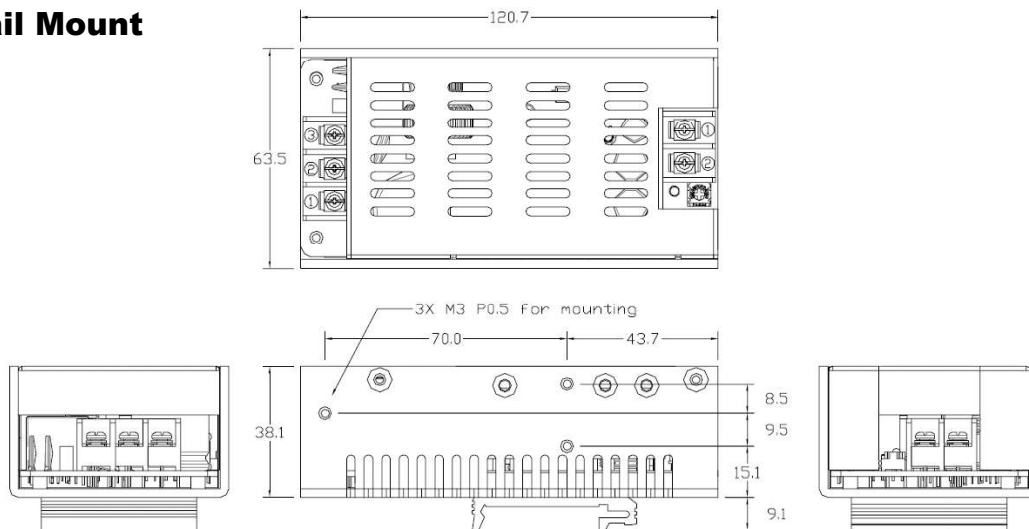
(1) NEC Class 2 in accordance with UL1310. CSW65-24 only)

## Outline Drawings

### U Channel



### /D DIN Rail Mount



## Model Selector

| Model    | Output (V) | Maximum Output (A) | Maximum Power (W) | Ripple and Noise (mV) | Overvoltage (V) |
|----------|------------|--------------------|-------------------|-----------------------|-----------------|
| CSW65-5  | 5          | 8.0                | 40                | 100                   | 6 - 8           |
| CSW65-12 | 12         | 5.42               | 65                | 120                   | 13.2 - 15.6     |
| CSW65-15 | 15         | 4.34               | 65                | 150                   | 16.5 - 19.5     |
| CSW65-18 | 18         | 3.62               | 65                | 180                   | 19.8 - 23.4     |
| CSW65-24 | 24         | 2.71               | 65                | 240                   | 26.4 - 31.2     |
| CSW65-28 | 28         | 2.33               | 65                | 280                   | 30.8 - 36.4     |
| CSW65-48 | 48         | 1.36               | 65                | 280                   | 52.8 - 62.4     |
| CSW65-54 | 54         | 1.21               | 65                | 280                   | 59.4 - 64.8     |

## Options

| Suffix | Description                         |
|--------|-------------------------------------|
| Blank  | U-Channel                           |
| /A     | U-Channel & Cover                   |
| /D     | U-Channel, Cover & DIN Rail Bracket |

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/csw-series.htm](http://us.tdk-lambda.com/lp/products/csw-series.htm)

