



# QT-CAB-eLED+TW

## 24V DC Power Supply - 100W-600W



- DC power supply designed for tunable white applications
- UL listed enclosure allows for 1-6 drivers and 1-6 dimming modules
- Utilizes 100W constant voltage LED drivers and Q-Tran's proprietary TW dimming module
- Control provided by two 0-10V inputs: one for intensity and one for color temperature
- Available in 100-600 watts of output
- Housing can be recessed or surface mounted
- Type IC rated
- Designed for interior use

### QT-CAB ORDERING PROCESS

**A** Specify housing

**B** Specify power supply tray details

#### A. HOUSING

| A1      | A2    |
|---------|-------|
| PRODUCT | COLOR |
| QT-CAB  |       |

Sample Part Number: **QT-CAB-WH**

#### B. POWER SUPPLY TRAY DETAILS

| B1          | B2      | B3              | B4                | B5      | B6       | B7                       |
|-------------|---------|-----------------|-------------------|---------|----------|--------------------------|
| PRODUCT     | WATTAGE | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CONTROL | ASSEMBLY | CORRELATED HOUSING COLOR |
| QT-CAB-eLED |         | UNV             | 24VDC             | TW      |          |                          |

Sample Part Number: **QT-CAB-eLED-300W-UNV-24VDC-TW-NI-WH**

| A1 | PRODUCT |
|----|---------|
|    | QT-CAB  |

| A2 | COLOR                    |
|----|--------------------------|
| WH | White (Standard)         |
| BK | Black Powder Coat Finish |

| B1 | PRODUCT     |
|----|-------------|
|    | QT-CAB-eLED |

| B2   | WATTAGE        |
|------|----------------|
| 100W | 1 100W Driver  |
| 200W | 2 100W Drivers |
| 300W | 3 100W Drivers |
| 400W | 4 100W Drivers |
| 500W | 5 100W Drivers |
| 600W | 6 100W Drivers |

| B3  | PRIMARY VOLTAGE      |
|-----|----------------------|
| UNV | Universal (120-277V) |

| B4 | SECONDARY VOLTAGE |
|----|-------------------|
|    | 24VDC             |

| B5 | CONTROL       |
|----|---------------|
| TW | Tunable White |

| B6   | ASSEMBLY          |
|--|-------------------|
| FA   | Factory Assembled |
| NI   | Not Installed     |
| Select NI to receive the housing before the power supply tray ships. |                   |

| B7 | CORRELATED HOUSING COLOR |
|----|--------------------------|
| WH | White (Standard)         |
| BK | Black Powder Coat Finish |

### COMPATIBLE LEDS

#### STATIC WHITE

|                         |  |
|-------------------------|--|
| SW24/15-4.0             |  |
| SW24/5.0, SW-HE, SW-HE+ |  |
| SD-SW24/1.0-4.0         |  |
| SD-SW24/6.0             |  |
| SW-1A                   |  |
| SW-Xt                   |  |

#### OTHER

|                             |   |
|-----------------------------|---|
| DW-HE Tunable Applications  | ✓ |
| DW-HE Warm Dim Applications |   |
| WD                          |   |
| SC                          |   |
| RGB                         |   |
| RGBW, RGBW-HE               |   |

#### SHEETS

|                                   |   |
|-----------------------------------|---|
| Q-SHEETS SW                       |   |
| Q-SHEETS DW Tunable Applications  | ✓ |
| Q-SHEETS DW Warm Dim Applications |   |
| Q-SHEETS RGB                      |   |
| Q-SHEETS RGBW                     |   |

#### MICRO 5

|                                  |   |
|----------------------------------|---|
| MICRO 5-SW                       |   |
| MICRO 5-DW Tunable Applications  | ✓ |
| MICRO 5-DW Warm Dim Applications |   |
| MICRO 5-RGB                      |   |



# QT-CAB-eLED+TW

24V DC Power Supply - 100W-600W

## PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- QTL proprietary dimming curve
- Controllable with 2x0-10V inputs; CCT and Intensity Control
- Control 2 LED channels
- 0-10V dimming down to 0.1%
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- Type IC rated
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4°F to 104°F
- Storage temperature range: -40°F to 185°F
- Installation temperature range: -4°F to 140°F
- Fits up to (6):100W 24VDC driver(s) and Tunable White Module
- Up to (2x6) 0-10V dimming zones. Each circuit has two dedicated 0-10V control. One 0-10V control for CCT, one 0-10V for Intensity
- Up to (6) primary zones. Each output circuit has a dedicated AC input.
- 5 year warranty
- Driver has Class A sound rating
- Class 2 output
- CSA #239924
- Low Voltage Lighting Systems
  - CSA class 3425-15 and class 3425-95
  - CSA standard C22.2 No. 250.0-08 - Luminaires
  - ANSI/ UL standard 2108 - Low voltage lighting systems
  - CSA standard C22.2 No 250.13-14 - Light emitting diode (LED) equipment for lighting applications
  - ANSI/ UL standard 8750 - Light emitting diode (LED) equipment for use in lighting products

## VOLTAGE DROP CHART

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. If dimming with optional 0-10V dimming module, use a dimmer rated for 0-10

| VDC | Load (W) | Distance from PS for 5% Voltage Drop |        |        |        |        |        |        |        |        |
|-----|----------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |          | 10 AWG                               | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24  | 17       | 848                                  | 533    | 336    | 211    | 133    | 84     | 53     | 33     | 21     |
|     | 25       | 577                                  | 363    | 228    | 143    | 90     | 57     | 36     | 22     | 14     |
|     | 40       | 360                                  | 227    | 143    | 90     | 56     | 36     | 22     | 14     | 9      |
|     | 80       | 180                                  | 113    | 71     | 45     | 28     | 18     | 11     | 7      | 4      |
|     | 100      | 144                                  | 91     | 57     | 36     | 23     | 14     | 9      | 6      | 4      |

| VDC | Load (W) | Distance from PS for 3% Voltage Drop |        |        |        |        |        |        |        |        |
|-----|----------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |          | 10 AWG                               | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24  | 17       | 509                                  | 320    | 201    | 127    | 80     | 50     | 32     | 20     | 13     |
|     | 25       | 346                                  | 218    | 137    | 86     | 54     | 34     | 21     | 14     | 9      |
|     | 40       | 216                                  | 136    | 86     | 54     | 34     | 21     | 13     | 8      | 5      |
|     | 80       | 108                                  | 68     | 43     | 27     | 17     | 11     | 7      | 4      | 3      |
|     | 100      | 87                                   | 54     | 34     | 22     | 14     | 9      | 5      | 3      | 2      |

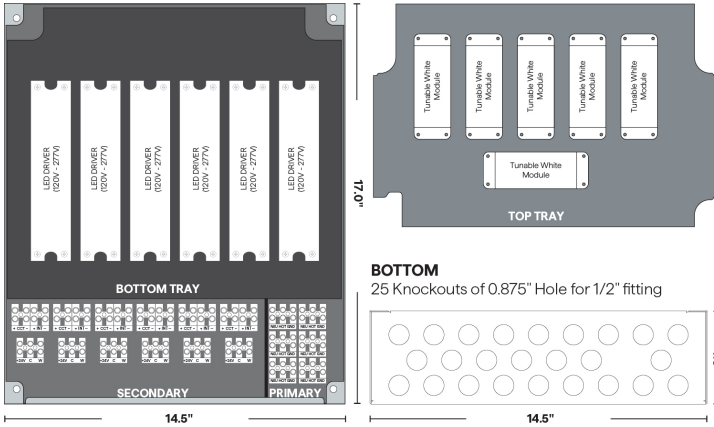
| VDC | Load (W) | Distance from PS for 1% Voltage Drop |        |        |        |        |        |        |        |        |
|-----|----------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |          | 10 AWG                               | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24  | 17       | 170                                  | 107    | 67     | 42     | 27     | 17     | 11     | 7      | 4      |
|     | 25       | 115                                  | 73     | 46     | 29     | 18     | 11     | 7      | 5      | 3      |
|     | 40       | 72                                   | 45     | 29     | 18     | 11     | 7      | 5      | 3      | 2      |
|     | 80       | 36                                   | 23     | 14     | 9      | 6      | 4      | 2      | 1      | 1      |
|     | 100      | 29                                   | 18     | 11     | 7      | 5      | 3      | 2      | 1      | 1      |



# QT-CAB-eLED+TW

## 24V DC Power Supply - 100W-600W

### A1 PRODUCT - DIMENSIONS



### B2 TECHNICAL INFORMATION

| Wattage | Max Load (Watts) | Secondary Voltage | Max Prim Amps @ 120V | Max Prim Amps @ 277V |
|---------|------------------|-------------------|----------------------|----------------------|
| 100W    | 1×100W           | 24VDC             | 0.95A                | 0.40A                |
| 200W    | 2×100W           | 24VDC             | 1.90A                | 0.80A                |
| 300W    | 3×100W           | 24VDC             | 2.85A                | 1.20A                |
| 400W    | 4×100W           | 24VDC             | 3.80A                | 1.60A                |
| 500W    | 5×100W           | 24VDC             | 4.75A                | 2.00A                |
| 600W    | 6×100W           | 24VDC             | 5.70A                | 2.40A                |

## HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 17.0"H x 4.00"D
- Door: 15.5"W x 18.0"H
- Knockouts: 25
- Bracket kit included for recessed or surface mounting.

## PERFORMANCE

- Rated for surface mount or recessed use
- Type IC rated
- Fully rated to operate low voltage load at listed wattage (No derating required)
- Voltage regulation to 2% or less of rated output voltage
- The ability to be dimmed using 0-10V dimming
- Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
  - Live tested by the manufacturer to ensure proper operation
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A



# QT-CAB-eLED+TW

24V DC Power Supply - 100W-600W

## SPECIFICATIONS

| Input                      | 24VDC |      |      |
|----------------------------|-------|------|------|
| Input Voltage (Vrms)       | 120   | 230  | 277  |
| Input Current, max (Arms)  | 0.98  | 0.51 | 0.43 |
| Inrush Current, max* (Apk) | -     | 20   | -    |
| Input Frequency (Hz)       | 50/60 |      |      |
| Input Power (Wmax)         | 117   |      |      |

| Output                  | 3000K | 2000K |
|-------------------------|-------|-------|
| Output Voltage, nom (V) | 24    | 24    |
| Output Current (A)      | 2.0   | 1.5   |
| Output Power (Wmax)     | 100   | 100   |
| Dimming 0-10V, max      | 2mA   |       |

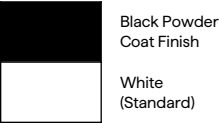
| Environmental  | Min  | Nom | Max |
|----------------|------|-----|-----|
| THD (%)        | -    | -   | 20  |
| PF (%)         | 0.90 | -   | -   |
| Case Temp (°F) | -    | -   | 90  |

\*-200us event

## PROTECTIONS

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Class 2 Output

## A2 COLOR



## COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

