



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	1100W 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	



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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

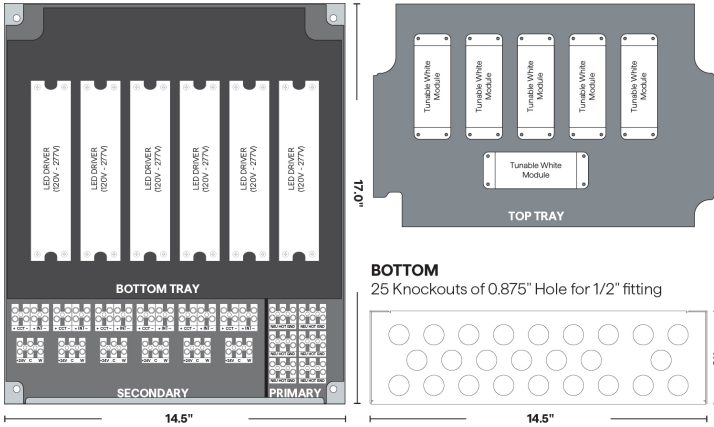
VDC	Load (W)	Distance from PS for 1% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	17	170	107	67	42	27	17	11	7	4
	25	115	73	46	29	18	11	7	5	3
	40	72	45	29	18	11	7	5	3	2
	80	36	23	14	9	6	4	2	1	1
	100	29	18	11	7	5	3	2	1	1



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A1 PRODUCT - DIMENSIONS



B2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A
400W	4x100W	24VDC	3.80A	1.60A
500W	5x100W	24VDC	4.75A	2.00A
600W	6x100W	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



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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	

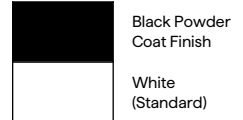
Environmental	Min	Nom	Max
THD (%)	-	-	20
PF (%)	0.90	-	-
Case Temp (°F)	-	-	90

*-200us event

PROTECTIONS

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

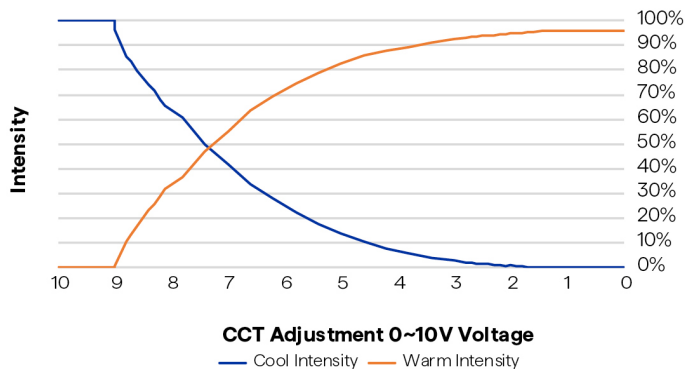
A2 COLOR



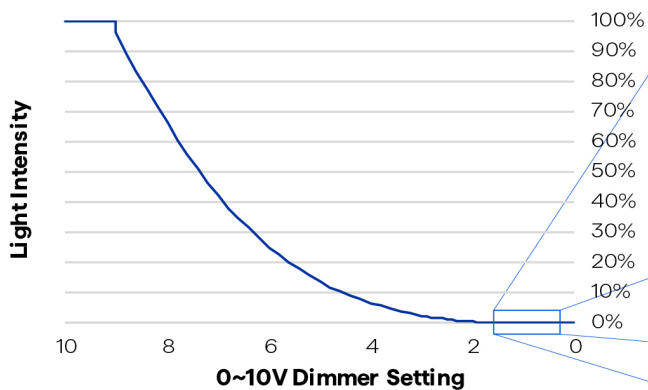
COMPLIANCE

- 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

Color Balance



Dimming Intensity Curve



Dimming Intensity Curve (Zoom)

