



QT-CAB-eLED+DMX

24V DC Power Supply - 100W-600W



- DC power supply designed for DMX lighting control applications
- Utilizes a 100W constant voltage LED Driver
- Uses the LINEARdrive DMX decoder from eldoLED
- Available in 100-600 watt capacity
- Provides plenty of flexibility and comes with all modules prewired together with terminal blocks for landing your LED and control wires.
- 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 | DMX | | |

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

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

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

| B1 | PRODUCT |
|--|---------|
| QT-CAB-eLED | |
| For customization or pre-programming, contact a local sales rep. DMX commissioning to be performed by a third party at time of installation. | |

| 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 |
|-----|---------|
| DMX | |

| 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 | ✓ |

If using DW LED, wattage must be doubled

SHEETS

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

If using DW LED, wattage must be doubled

MICRO 5

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

If using DW LED, wattage must be doubled



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PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable with DMX decoder module
- DMX 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 122°F
- Fits up to (6): 100W 24 VDC driver(s) and DMX decoder module(s)
- 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

| 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 |

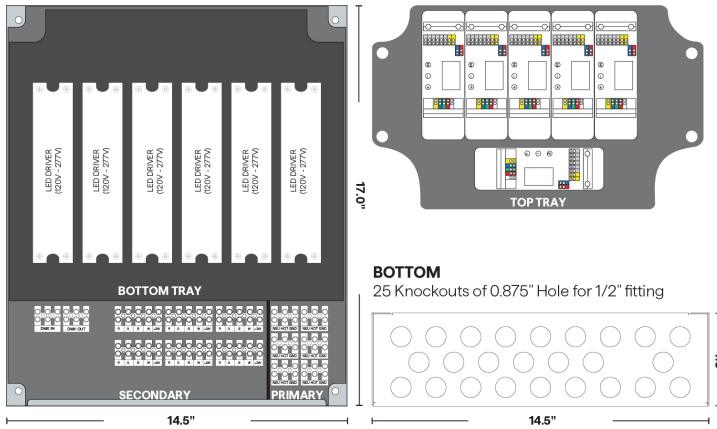
| VDC | Load (W) | Distance from PS for 1% Voltage Drop | | | | | | | | |
|-----|----------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 17 | 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 | 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 DMX 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 | RGB | RGBW |
|---------------------------------|-----|------|
| Output Voltage, nom (V) | 24 | 24 |
| Output Current (A) per channel | 14 | 1.0 |
| Output Power (Wmax) | 100 | 100 |
| Output Power (Wmax) per channel | 60 | 60 |

| 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

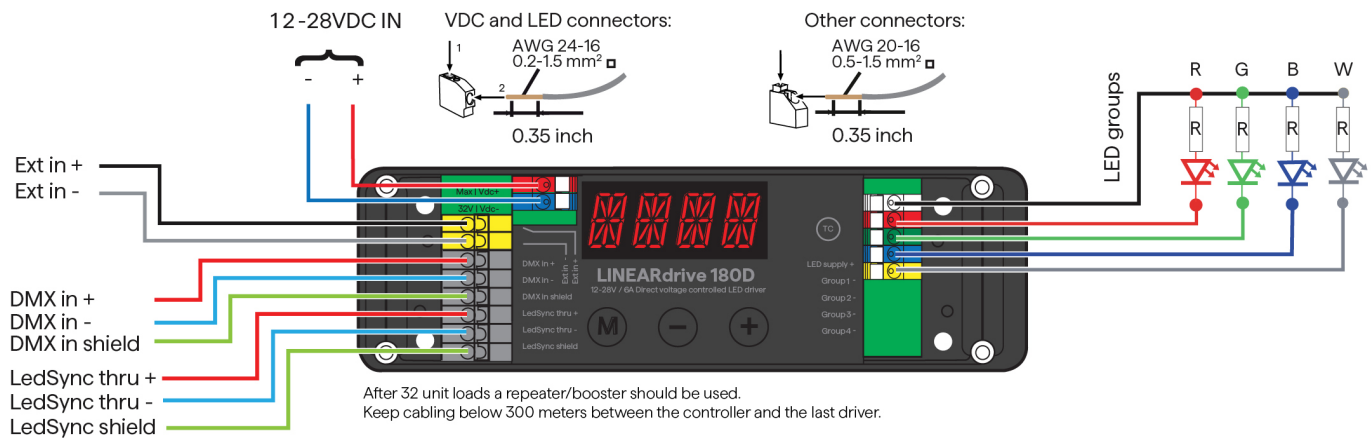
A2 COLOR

| | |
|--|--------------------------|
| | Black Powder Coat Finish |
| | White (Standard) |

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

WIRING DIAGRAM



12V - 28V DC IN

- To connect the driver to a DC power supply unit (PSU), connect the PSU's positive voltage supply wire to the VDC+ connector and the PSU's negative voltage supply wire to the VDC- connector.

EXT IN

- You have the possibility to connect an external control device (0-10V control device, 10kΩ potentiometer or show selection switch) to the driver's Ext in+ and Ext in - connector. Configure the driver for use with an external control device over the 3 - button user interface.

DMX IN/LEDsync OUT

- Use these connectors when the driver is used in a DMX network. For DMX in, connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively. For LedSync out, connect the network cable's DMX+, DMX- and DMX shielding wire to the LedSync out+, LedSync out- and LedSync shield connector respectively. DMX Shield must be grounded to Earth ground at a single point external to power supply

LED GROUPS







- Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2, B(lue) represents channel 3 and W(hite) represents channel 4. The default group color allocation can be changed over the 3-button user interface.



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COMPATIBLE CONTROL ACCESSORIES

| | | | | | |
|---|---|---|---|---|---|
| DMX-US1 | DMX-US3 | UX8 | iq-DMX-STICK-CW4 | iq-DMX-STICK-DE3 | iq-DMX-STICK-GA2 |
|  |  |  |  |  |  |
| DMX-based controller | DMX-based controller | Easy-to-use DMX-based controller | DMX controller for changing color & dimming | DMX controller for changing color & dimming | DMX controller for changing color & dimming |