

OVERVIEW

The Pharos control solution provides a host of integrated interfaces to support even the most complex project. However, installers typically require many third party devices to complete a system. Pharos now offers a range of DMX LED drivers to extend the reach of our unified and reliable power and data infrastructure.

There are three constant current drivers and one constant voltage driver available:

CVD

The CVD is a 6 channel DMX controlled LED driver for constant voltage fixtures. Multiple LEDs may be connected in parallel to each channel. The power supply voltage must match the voltage rating of the LEDs and the power supply power rating must be sufficient for the total power of the connected LEDs.

The CVD supports RDM for configuring the DMX start address, updating firmware and RDM locate. The start address of the CVD may be set manually using the hex wheel. The hex wheel also provides access to test modes.

The diagram opposite shows the key constraints to consider when specifying the CVD. Full details are below:

Power:

- Input voltage range 12 to 24V DC
- Max channel power 40W
- Max total power 180W*
- Efficiency 98%
- Input protection Reverse & over-voltage via self-resetting fuse.
- Output protection Over-current via self-resetting fuse per channel.

Electrical:

Supports the following wire terminations on 0.200" [5.08mm] plug-in rising clamp terminals (supplied):

- DC power.
- DMX512 In & Thru.
- LED outputs.

Control:

- USITT/ESTA DMX512 RDM control protocol.
- Structured as single RDM device with two sub-devices.
- RDM or manual addressing via hex wheel (channel 1, 7, 13, 19, 25, 31, 37 or 43).
- Test modes via hex wheel.

Physical:

- 6 unit wide DIN enclosure.
- Operating temperature range 0°C to 40°C (32°F to 104°F).
- Convection cooled.
- **CE** compliant and **ETL/cETL** listed.

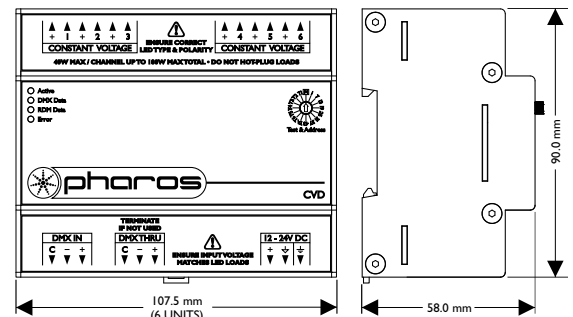
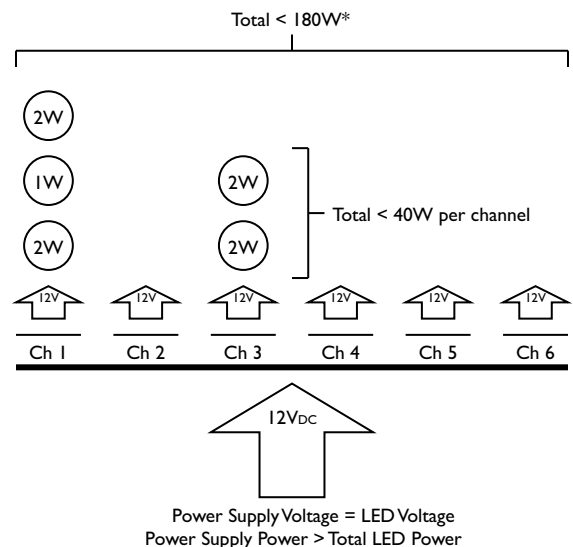
- 5 year warranty.

* Driver can be over-driven for increased capacity provided strict criteria are met. Please consult Pharos support.

Part Number: CVD



CVD POWER DIAGRAM



CCD

The CCDs are 6 channel DMX controlled LED drivers for constant current fixtures. Multiple LEDs may be connected in series to each channel. The power supply power rating must be sufficient for the total power of the connected LEDs. For maximum efficiency, the total LED forward voltage per channel should be approximately equal to the power supply voltage.

Like the CVD, CCDs support RDM for configuring the DMX start address, updating firmware and RDM locate. The start address of a CCD may be set manually using the hex wheel. The hex wheel also provides access to test modes.

The diagram opposite shows the key constraints to consider when specifying the CCD. There are three versions - full details are below:

Power:

- Efficiency 56-93% depending on LED forward voltage loading
- Input protection Reverse & over-voltage via self-resetting fuse.
- Output protection Current limited per channel.

Electrical:

Supports the following wire terminations on 0.200" [5.08mm] plug-in rising clamp terminals (supplied):

- DC power.
- DMX512 In & Thru.
- LED outputs.

Control:

- USITT/ESTA DMX512 RDM control protocol.
- Structured as single RDM device with two sub-devices.
- RDM or manual addressing via hex wheel (channel 1, 7, 13, 19, 25, 31, 37 or 43).
- Test modes via hex wheel.

Physical:

- 6 unit wide DIN enclosure.
- Operating temperature range 0°C to 40°C (32°F to 104°F).
- Convection cooled.
- **CE** compliant and **ETL/cETL** listed.
- 5 year warranty.

CCD 700

- 700mA per channel output current.
- 15V to 24V DC input voltage range.*

Part Number: CCD 700

CCD 500

- 500mA per channel output current.
- 15V to 36V DC input voltage range.*

Part Number: CCD 500

CCD 350

- 350mA per channel output current.
- 15V to 48V DC input voltage range.

Part Number: CCD 350

* Driver can be over-driven for increased capacity provided strict criteria are met. Please consult Pharos support.



CCD POWER DIAGRAM

