APT-CC-VDW MODULES

Features

> APT-CC-DW controllers enable dim-to-warm control to LED fixtures, replicating incandescent light
> Integrated between the driver and LED light engines, the DC modules are powered directly from the driver
> Incredibly smooth color transitions implemented in firmware, customizable upon request

Product Code

The product code indicates the hardware and firmware versions of the controller.

APT-CC-V*DW*-Rnnn-*wwww*	***VDW***- Hardware version (VDW) **Rnnn** – Maximum current at the output port[1] (2,000mA or 4,160mA) ***wwww***- Arkalumen internal code; not needed for ordering

1:Maximum current specified in increments of 10mA

Code	Description	Option	Configuration Trait
VDW	**DW** Denotes the hardware version	**VDW**	Dim-to-warm functionality
Rnnn	**nnn** Denotes the maximum current at the output port in 10mA increments (2,000mA or 4,160mA)	**R200**	Maximum current of 2,000mA
		R416	Maximum current of 4,160mA

Specifications

Power Characteristics

Input		
DC IN Current, Max.	4,160	mA
DC IN Voltage, Range	12 – 60	V

Output		
OUT Current, Max.	4,160	mA
OUT Voltage Range	12 – 60	V
OUT Current Per Channel, Max.	4,160	mA
OUT Voltage Per Channel, Max.	60	V
Max. Power	100	W

Operating Conditions

Environmental	
Ambient Temperature, Range	-20 – 55 °C
Case Temperature, Max.	85 °C
Material	Polyolefin

Ordering Information

Please specify the desired product code and configuration code when ordering.

Product Code: **APT-CC-VDW-R*nnn*-*wwww***	Ensure to specify the hardware version (VDW) and the required maximum current at the output port (Rnnn). The internal code (wwww) will be provided by Arkalumen and does not need to be specified.
Configuration Code: **M*qqq***	Please inform Arkalumen of the type of mapping curve selected for dim-to-warm controllers (Mqqq) ie. LIN, LOG, or custom.

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Configuration Code

The configuration code indicates value of key parameters within the controller as configured in factory.

Hardware Version	Configuration Code	Component Description
VDW-Rnnn	**M*qqq***	**M*qqq* –** Color temperature to current mapping

Firmware Configuration

Code	Description	Option	Configuration Trait
Mqqq	**qqq** Denotes the mapping curve used in dim-to-warm applications.	**MLIN**	Linear mapping
		MLOG	Logarithmic mapping
		Mcus	Custom mappings are available upon request

Mechanical Drawings

APT-CC-DW
Dimensions

Dimensions (inches)	
Length	2.55
Width	0.92
Height	0.22

Wiring Diagrams

APT-CC-VDW

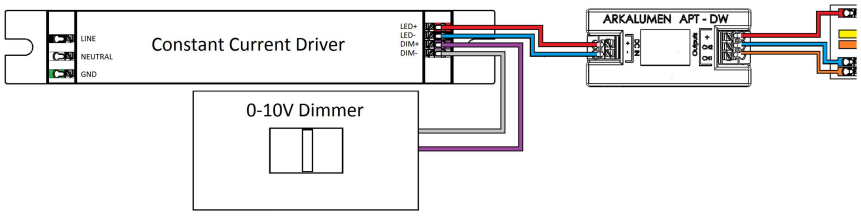

Figure 1 - APT-CC-VDW Dim to Warm configuration