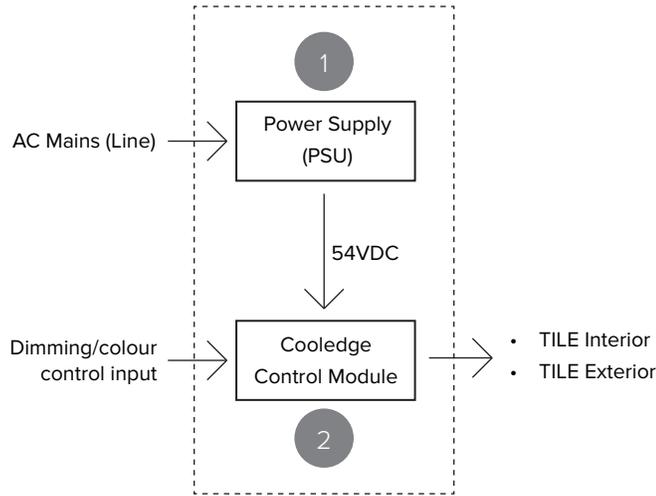




COOLEGE STATIC COLOR TEMPERATURE POWER & CONTROL (54V) SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	For Luminous Surfaces

SYSTEM OVERVIEW



Control on the scale of nature enables large luminous surfaces using industry standard protocols.

- 1 Power Supply: converts AC mains (line) power to safe low voltage 54V power
- 2 Cooledge Control Module: receives control input signals to dim Cooledge Lighting Systems. Output is max. 90W per channel

CERTIFICATIONS



RoHS



**UK
CA**

WARRANTY



5 Year Limited Warranty:
Parts and workmanship.

GENERAL

Operating Temp.	-20 to 55°C (-4 to 131°F)
Storage Temp.	-40 to 70°C (-40 to 158°F)
Relative Humidity	90% max (non-condensing)
Operating Voltage	Nominal 54VDC

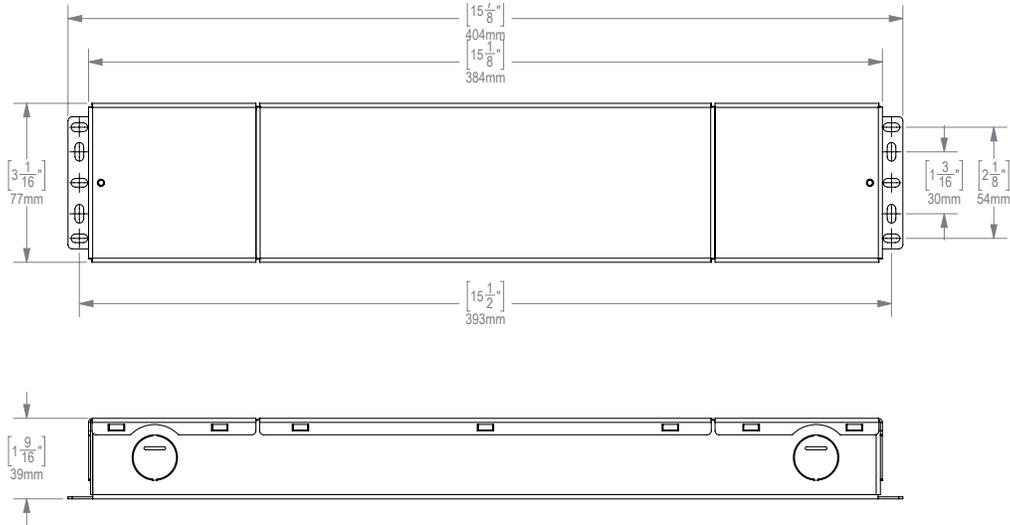
FEATURES

- Compatible with a full range of industry standard control protocols from simple analog (0/1-10V), to digital (DALI/DMX), and wireless (Casambi) options
- Up to four 90W channels of power enables larger luminous surfaces while reducing the number of line voltage connections required
- Simple and economic control for dynamic illumination that includes deep dimming
- Test mode available for on-site troubleshooting

COOLEdge STATIC COLOR TEMPERATURE POWER & CONTROL (54V) SPECIFICATIONS

1 POWER SUPPLIES AND LED DRIVERS = 1

Purpose: Converts AC mains (line) power to nominal 54VDC power.



SPECIFICATIONS

	92W LED Driver	200W Power Supply	400W Power Supply
Dimensions	15.9" x 3.0" x 1.5" / 404mm x 77mm x 39mm	15.9" x 3.0" x 1.5" / 404mm x 77mm x 39mm	15.9" x 3.0" x 1.5" / 404mm x 77mm x 39mm
Maximum Output Power (W)	92	200	400
Output Voltage (VDC)	54	54	54
Input Voltage Range (VAC)	Nom. 100-277	Nom. 100-277	Nom. 100-277
Efficiency (% at full load – typ.) (@120VAC/277VAC)	86/89	86/89	86/89
Power Factor (full load)	>0.90	>0.90	>0.90
Total Harmonic Distortion (%)	< 20	< 20	< 20
Start-up Time (sec)	< 2.0	< 2.0	< 2.0
Max. Inrush Current	60A (per NEMA 410)	60A (per NEMA 410)	75A (per NEMA 410)
Certification	UL Listed & CE Compliant	UL Listed & CE Compliant	UL Listed & CE Compliant
Rated Lifetime (hr) Tc <75°C	50,000	50,000	50,000
Weight	2.6 lb / 1200g	2.6 lb / 1200g	3.2 lb / 1400g

HOW TO ORDER

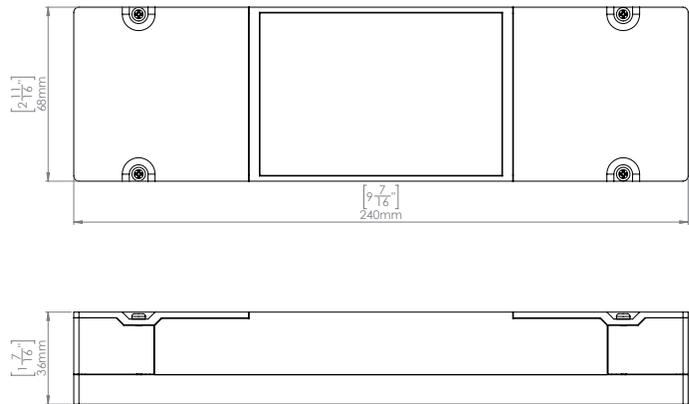
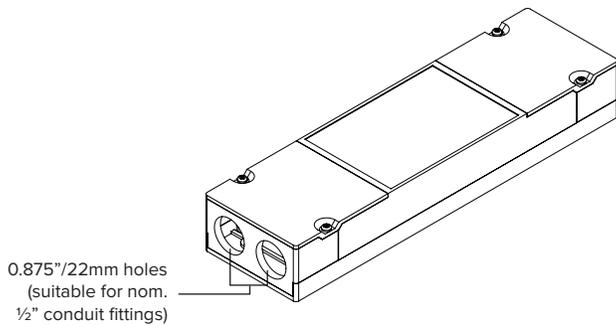
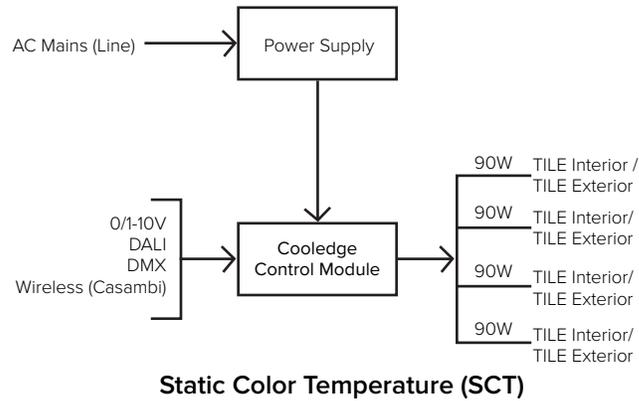
Output Power	Ordering Code	Description
92W	EPSS-092-54V-UL/CE*	92W Power Supply; 54V with integrated junction box
200W	EPSS-200-54V-UL/CE*	200W Power Supply; 54V with integrated junction box
400W	EPSS-400-54V-UL/CE*	400W Power Supply; 54V with integrated junction box

*select UL for the UL Listed version and CE for the CE Compliant version

COOLEGE STATIC COLOR TEMPERATURE POWER & CONTROL (54V) SPECIFICATIONS

2 COOLEGE CONTROL MODULE: GENERAL = 2

Purpose: Coolege Control Modules perform two functions: 1) convert a single incoming DC power source to multiple Class 2 output (<90W) channels; and 2) convert incoming control signals to dimming output to operate Coolege TILE products.



SPECIFICATIONS

Dimensions	9.4" x 2.7" x 1.4" / 240mm x 68mm x 36mm
Output Power (W per channel)	90 (Class 2); up to 4CH
Input Power (W)	Up to 400 (Class 1)
Circuit Protection	Overcurrent, Overvoltage, Reverse Polarity, Short Circuit
Dimming Frequency (Hz)	3950
Dimming Range (%)	0.1 - 100
Standalone Test Mode	Available
Maximum Control Current (Source)	0.5 mA
Max. Wire Size	12 AWG/4.0mm ²
Rated Lifetime (hr)	70,000
EMI	FCC Part 15, Class B (UL model)/CE Compliant
Location	Indoor; Dry locations. Outdoor use requires suitable enclosure*
Weight	0.5lbs / 227g

*For exterior applications, Coolege Control Modules must be mounted within an appropriate IP65 or higher enclosure is minimum 15.6" (397mm) L x 6.5" (166mm) W X 3.6" (92mm) H.

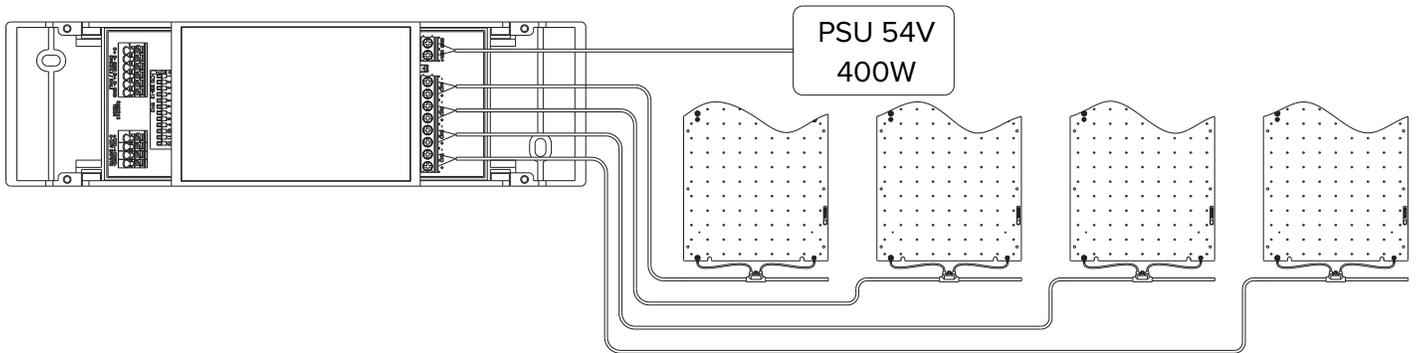
COOLEGE STATIC COLOR TEMPERATURE POWER & CONTROL (54V) SPECIFICATIONS

3 COOLEGE CONTROL MODULES: DALI AND 0-10V

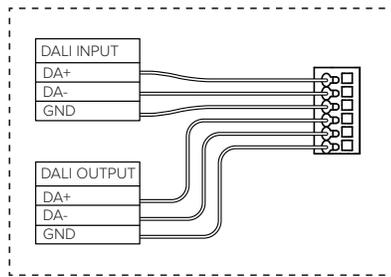
Control Modules identified as “DALI” have dual protocol capability:

1. if the DALI input is used the module will operate based on incoming DALI control signals and each output channel can be controlled independently.
2. if 0-10V input is used, the module will operate based on incoming 0-10V signals and all output channels will be controlled by this input.

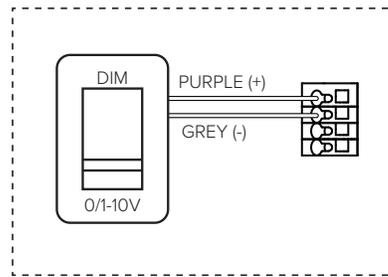
NOTE: DALI takes precedence - if DALI connected, unit will ignore 0-10V signals



Option 1: DALI



Option 2: 0-10V SCT



HOW TO ORDER

Input Control Protocol	Ordering Code	Description
0-10V & DALI	CTR-SCT-DAL/010-48/58V	360W (max.) Control Module, DALI/0-10V, 54V, Single Channel x 4(@90W), 0.10% dimming

NOTES:

DALI polarity free, opto-isolated interface

DALI 1 + DALI 2 compatible:

IEC 62386-101:2014 (Digital Addressable Lighting Interface – Part 101: General Requirements – System Components)

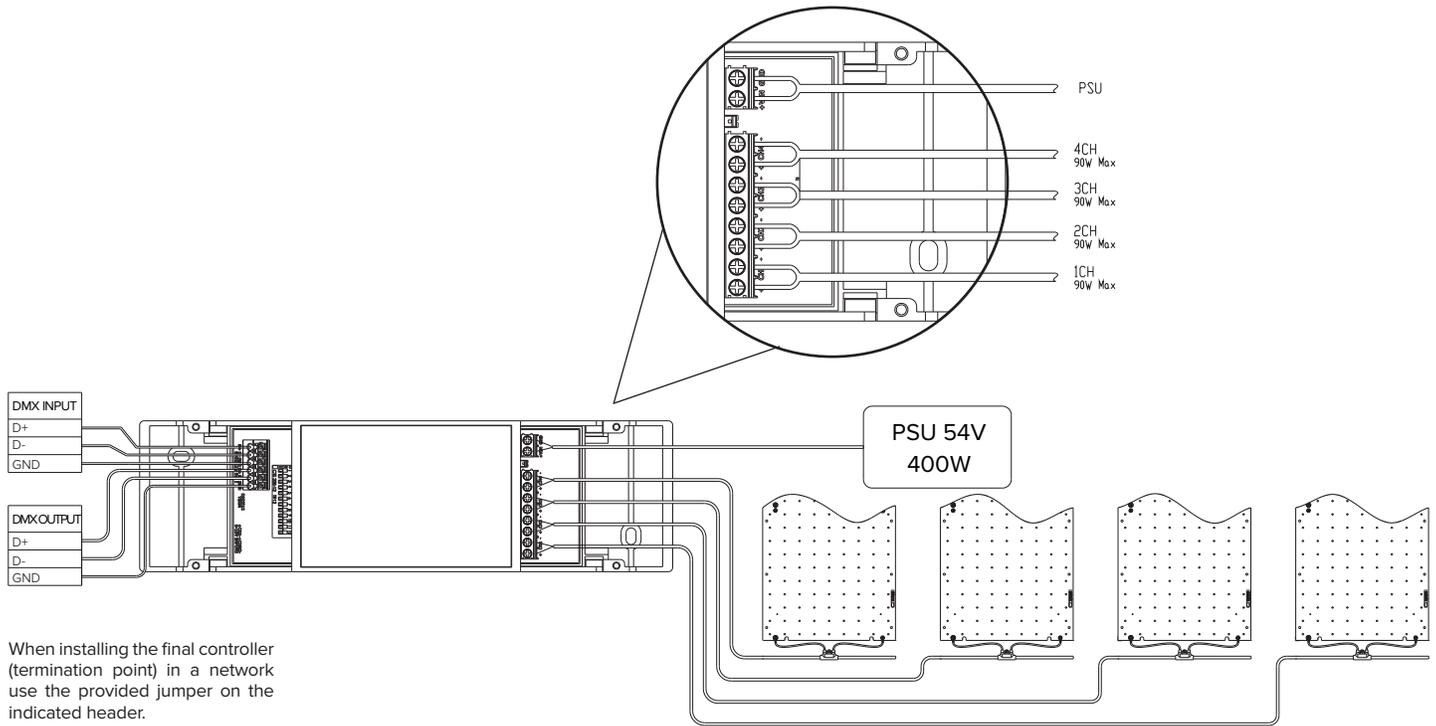
IEC 62386-102:2014 (Digital Addressable Lighting Interface – Part 102: General Requirements – Control Gear)

IEC 62386 – 207:2009 (Digital Addressable Lighting Interface – Part 207: Particular Requirements for Control Gear – LED Modules (Device Type 6))

COOLEGE STATIC COLOR TEMPERATURE POWER & CONTROL (54V) SPECIFICATIONS

4 COOLEGE CONTROL MODULES: DMX

Control Modules identified as “DMX” operate on control signals received from a DMX controller (8 or 16 bit) and each output channel can be controlled independently.



HOW TO ORDER

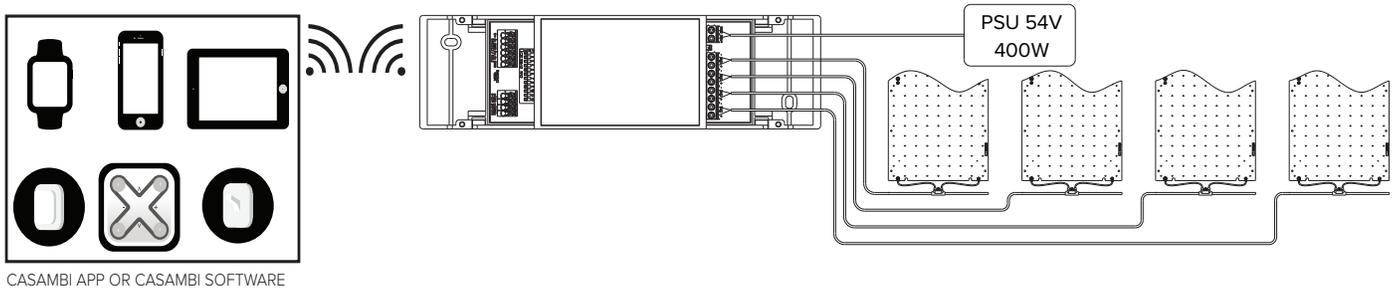
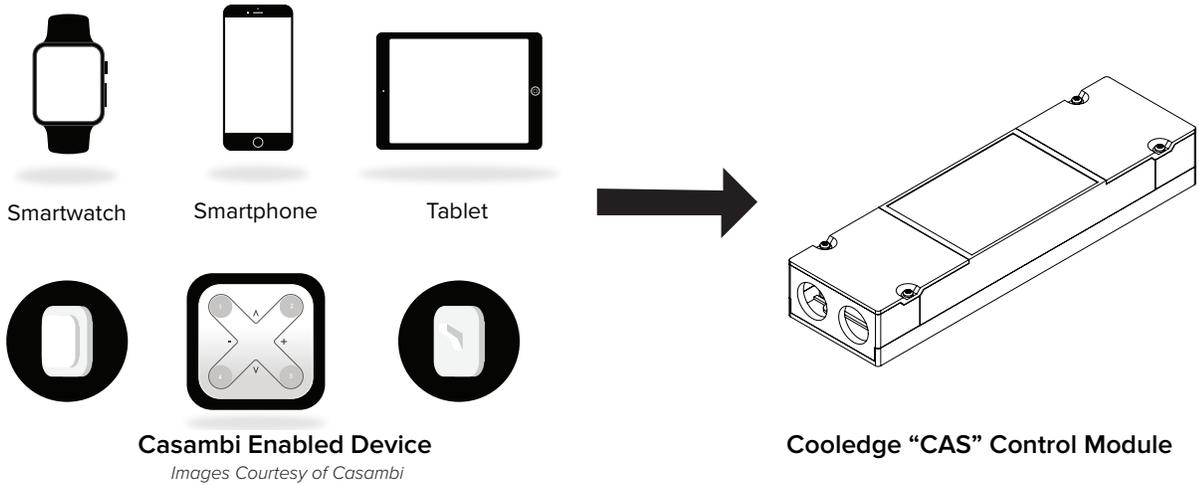
Input Control Protocol	Ordering Code	Description
DMX	CTR-SCT-DMX-48/58V	360W (max.) Control Module, DMX, 54V, Single Channel x 4 (@90W), 0.10% dimming

NOTES:

Compliant with USITT DMX512-A (E1.11-2008 (R2013))

5 COOLEGE CONTROL MODULES: WIRELESS (CASAMBI)

Control Modules identified as “CAS” operate on control signals received from a Casambi (Bluetooth Low Energy wireless protocol) enabled device including a wireless device, smartphone or tablet.



HOW TO ORDER

Input Control Protocol	Ordering Code	Description
Wireless (Casambi)	CTR-SCT-CAS-48/58V	360W (max) Control Module, Casambi Wireless, 54V, Single Channel x 4 (@90W), 0.10% dimming

Wireless range may be affected by mounting method, location and weather conditions. Cooledge recommends evaluation of wireless functionality by application.