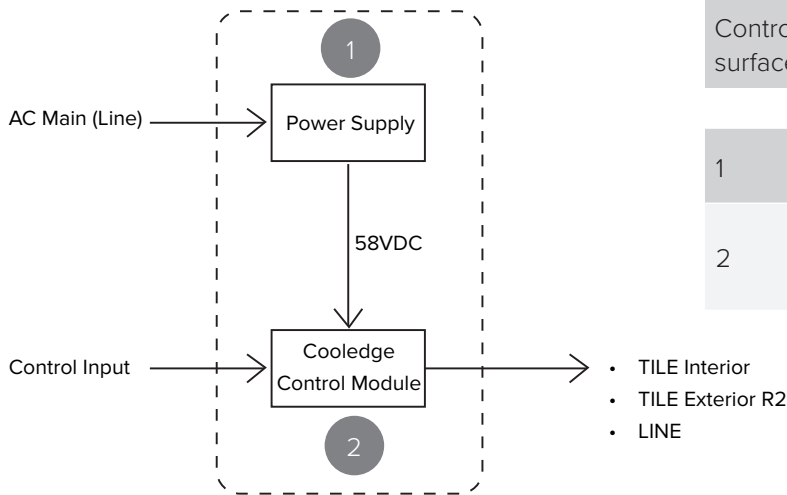


COOLEEDGE™

# COOLEEDGE CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) 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 58V power
2	Cooledge Control Module: receives control input signals to dim Cooledge Lighting Systems. Output is max. 90W per channel

## GENERAL

Operating Temp.	-20 to 55°C
Storage Temp.	-40 to 70°C
Relative Humidity	90% max (non-condensing)
Operating Voltage	Nominal 58VDC

## CERTIFICATIONS



## WARRANTY



5 Year Limited Warranty: Parts and workmanship

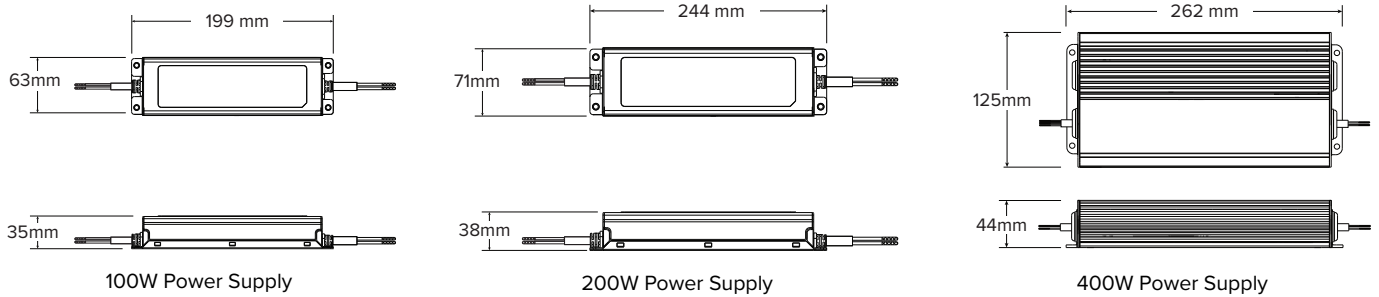
## FEATURES

- 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 CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) SPECIFICATIONS

## 1 POWER SUPPLIES = 1

**Purpose:** Converts AC mains (line) power to nominal 58VDC power.



## SPECIFICATIONS

	100W	200W	400W
TILE Exterior R2	Yes	Yes	Yes
IP Rating	IP67	IP67	IP67
Dimensions (mm)	199 x 63 x 35	244 x 71 x 38	262 x 125 x 44
Maximum Output Power (W)	100	200	400
Output Voltage (VDC)	58	58	57
Input Voltage Range (VAC)	Nom. 220-277	Nom. 220-277	Nom. 120-277
Efficiency (% at full load – typ.)	91	93	95
Power Factor (full load)	0.95	0.98	0.98
Total Harmonic Distortion (%)	< 10 (full load)	≤ 20 (>50% load)	≤ 20 (>40% load)
Start-up Time (sec)	0.9 (full load)	0.5	0.5
Max. Inrush Current	60A	75A	35A
Certification	CE Compliant	CE Compliant	CE Compliant
Rated Lifetime (hr)	70,000	62,000	62,000
Weight	757g	1116g	2800g

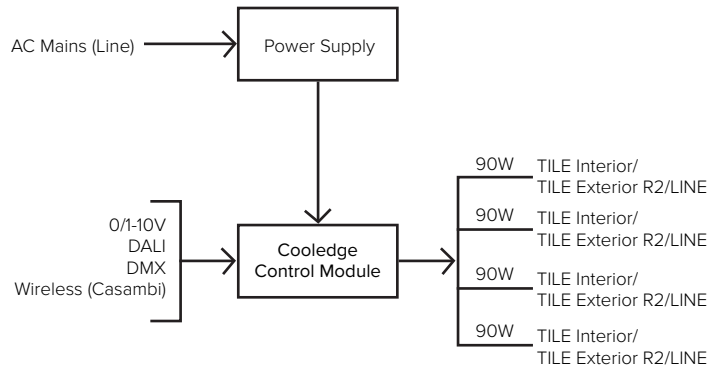
## HOW TO ORDER

Output Power	Ordering Code	Description
100W	PSS-100-58V	Meanwell (configured for Cooledge) 100W Power Supply, 58V, IP67 (CE compliant)
200W	PSS-200-58V	Meanwell (configured for Cooledge) 200W Power Supply, 58V, IP67 (CE compliant)
400W	PSS-400-58V	Meanwell (configured for Cooledge) 400W Power Supply, 58V, IP67 (CE compliant)

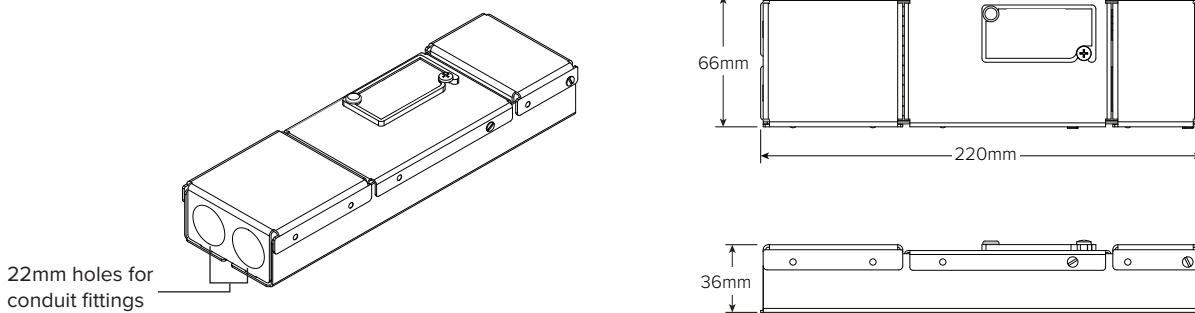
# COOLEDGE CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) SPECIFICATIONS

## 2 COOLEDGE CONTROL MODULE: GENERAL = 2

**Purpose:** Cooledge Control Modules perform two functions: 1) convert a single incoming DC power source to multiple Class 2 output (<100W) channels; and 2) convert incoming control signals to dimming output to operate Cooledge TILE and LINE products.



### Static Color Temperature (SCT)



## SPECIFICATIONS

Dimensions (mm)	220 x 66 x 36
Output Power (W per channel)	90: Up to 4CH
Circuit Protection	Overcurrent, Overvoltage, Reverse Polarity, Short Circuit
Dimming Frequency (Hz)	3950
Dimming Range (%)	0.05 - 100
Standalone Test Mode	Available
Maximum Control Current (Source)	0.5 mA
Max. Wire Size	3.3mm <sup>2</sup>
Rated Lifetime (hr)	70,000
Location	Indoor; Dry locations. Outdoor use requires suitable enclosure*
Weight	213g

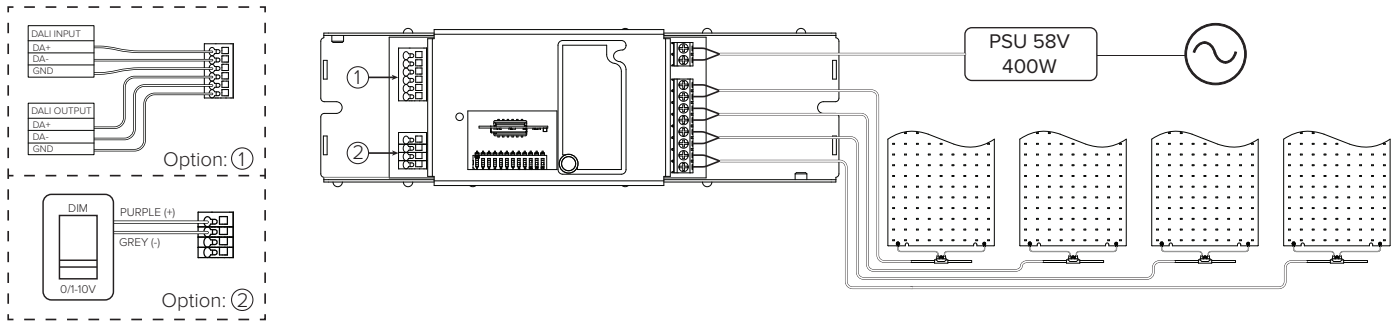
\*For exterior applications, Cooledge Control Modules must be mounted within an appropriate IP65 or higher enclosure is 360mm x 160mm x 91mm. Please contact Cooledge Lighting for recommendations.

# COOLEGE CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) 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.



### Static Color Temperature (SCT)

## HOW TO ORDER

Input Control Protocol	Ordering Code	Description
0-10V	CTR-SCT-010-58V <sup>1</sup>	90W (max.) Control Module, 0/1-10V, 58V, Single Channel x 1, 1% Dimming
0-10V & DALI	CTR-SCT-DAL-58V	400W (max.) Control Module, DALI/0-10V, 58V, Single Channel x 4, 0.05% Dimming

1. Contact Coolege for details of this module.

### NOTES:

DALI polarity free, opto-isolated interface

DALI 1 compatible:

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

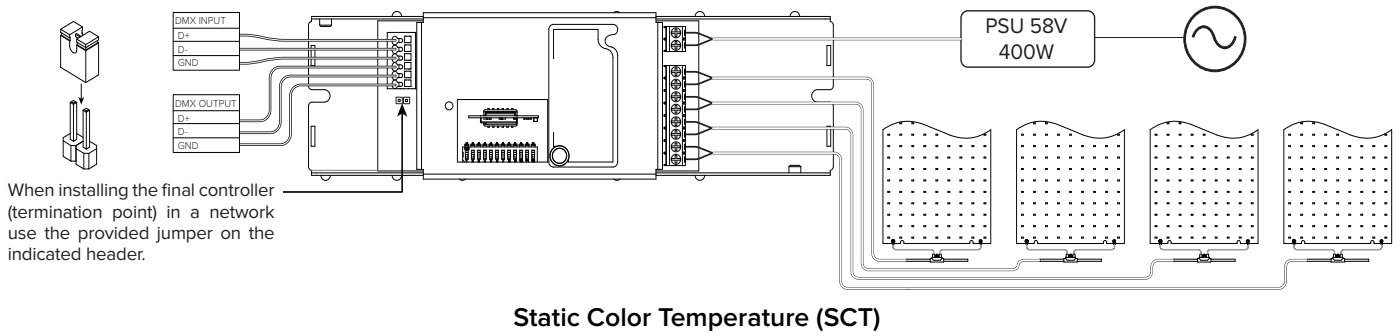
IEC 62386-102:2014 (Digital Addressable Lighting Interface – Part 102: General Requirements – Control Gear)

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

# COOLEGE CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) SPECIFICATIONS

## 4 COOLEGE CONTROL MODULES: DMX

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



## HOW TO ORDER

Input Control Protocol	Ordering Code	Description
DMX	CTR-SCT-DMX-58V	400W (max.) Control Module, DMX, 58V, Single Channel x 4, 0.05% Dimming

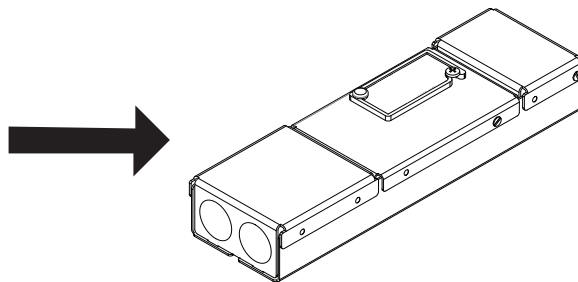
### NOTES:

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

# COOLEGE CE LISTED STATIC COLOUR TEMPERATURE POWER & CONTROL (58V) SPECIFICATIONS

## 5 COOLEGE CONTROL MODULES: WIRELESS (CASAMBI)

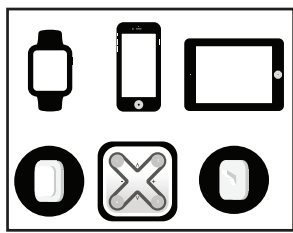
Control Modules identified as “CAS” operate on control signals received from a Casambi (Bluetooth Low Energy wireless protocol) enabled device including a wireless switch, smartphone or tablet.



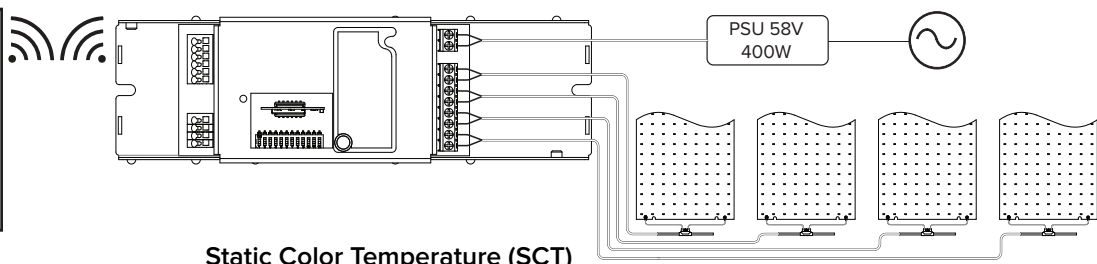
**Casambi Enabled Device**

*Images Courtesy of Casambi*

**Cooledge “CAS” Control Module**



CASAMBI APP OR CASAMBI SOFTWARE



**Static Color Temperature (SCT)**

### HOW TO ORDER

Input Control Protocol	Ordering Code	Description
Wireless (Casambi)	CTR-SCT-CAS-58V	400W (max.) Control Module, Casambi wireless, 58V, Single Channel x 4, 0.05% Dimming

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