



COOLEDGE

COOLEDGE CE COMPLIANT LED DRIVERS - SPECIFICATIONS

PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY	
DATE		NOTE	For Luminous Surfaces

INTERIOR DRIVERS

Purpose: Cooledge Interior CE Compliant LED Drivers are used to power the following products:

- Cooledge TILE Interior
- Cooledge TILE Tunable White
- Cooledge LINE

FEATURES

- 58 VDC Constant Voltage output
- 0/1-10V dimming & CCT tuning
- 2-channel driver incorporates deep dimming to 0.05% light output
- 2-channel driver offers flicker-free dimming at 3000Hz

CERTIFICATIONS



WARRANTY



5 Year Limited Warranty:
Parts and workmanship

Category	1-Channel (Dimming)	2-Channel (Dimming + Tuning)
Driver Enclosure Size (mm)	199 x 63 x 35	199 x 63 x 35
Dimming Module ("TWC") Size (mm)	123 x 45 x 24	123 x 45 x 24
Input Frequency (Hz)	50-60	50-60
Nominal Input Voltage Range (VAC)	220-277	220-277
Output Power (W)	90W	90W
Constant Voltage Output (VDC)	58*	58*
Efficiency (%) – typical at full load	91	91
Power Factor – full load	0.95	0.95
Start time at full load (sec) – typical	0.85	0.85
Max Inrush Current	60A	60A
Standard Protection – Overvoltage, Overcurrent, Short Circuit	YES + Overtemperature	YES + Overtemperature
Dimming Control Protocol*	1-10V*	1-10V*
Dimming Range (%)	0.05 - 100	0.05 - 100
Dimming Frequency (Hz)	3000	3000
Maximum Control Current (Source)*	3mA	3mA
# Input Control Conductors (Class 2)	2 (0.33-0.52mm ²)	4 (0.33-0.52mm ²)
Ingress Protection Rating	Dry Location	Dry Location
Humidity (%) – max. relative, non-condensing	90	90
Operating Temperature Range (°C)	0 - 50°C	0 - 50°C
Storage Temperature Range (°C)	-40 - +80°C	-40 - +80°C
Rated Lifetime (hr)	70,000	70,000
CE Compliance	EN/IEC 60598 (System) EN/IEC 55015 (Class B) EN/IEC 6157: 2009 EN/IEC 61000-3-2, 3 EN/IEC 61347-1 EN/IEC 61347-2-13 EN/IEC 61000-4-2,3,4,5,6,8,11 (Class A)	EN/IEC 60598 (System) EN/IEC 55015 (Class B) EN/IEC 6157: 2009 EN/IEC 61000-3-2, 3 EN/IEC 61347-1 EN/IEC 61347-2-13 EN/IEC 61000-4-2,3,4,5,6,8,11 (Class A)
RoHS Compliance	Yes	Yes

*Set at factory

HOW TO ORDER

PSD	-	090	-		-	58V	-	010
<u>PRODUCT</u> PSD = Power Supply - Dimmable		<u>POWER</u> 090 = 90W		<u>CHANNELS</u> 1CH = 1 Channel 2CH = 2 Channel		<u>OUTPUT VOLTS</u> 58V		<u>CONTROL PROTOCOL</u> 010 = 0/1-10V

Example: EPSP-090-1CH-58V-010

Cooledge Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.



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EXTERIOR DRIVERS

Purpose: Cooledge Exterior CE Compliant LED Drivers are used to power the following products:

- Cooledge TILE Exterior

FEATURES

- 24 VDC Constant Voltage output
- IP65 Rated Enclosure Available

CERTIFICATIONS



WARRANTY



5 Year Limited Warranty:
Parts and workmanship

Category	Built-in Installation Type	Independent Mounting Type
Driver Housing Size (mm)	241 x 43 x 30	241 x 43 x 30
Enclosure Size	Not Applicable	356 x 127 x 76
Input Frequency (Hz)	50-60	50-60
Nominal Input Voltage Range (VAC)	120-277	120-277
Output Power (W)	90	90
Constant Voltage Output (VDC)	24	24
Efficiency (%) – typical at full load	89 (240VAC)	89 (240VAC)
Power Factor – typical at full load	0.96 (240VAC)	0.96 (240VAC)
Total Harmonic Distortion (%) – typical at full load	< 15 (240VAC)	< 15 (240VAC)
Max Inrush Current (A) - typical	8 (240VAC)	8 (240VAC)
Standard Protection – Overvoltage, Overcurrent, Short Circuit	Yes + Overtemperature (Auto re-set)	Yes + Overtemperature (Auto re-set)
Ingress Protection Rating	Provided by others per IEC 60634	IP65
Operating Temperature Range (°C)	-40 - +55 (within the enclosure)	-20 - 50°C
Storage Temperature Range (°C)	-40 - 70°C	-40 - 70°C
Maximum Case Temperature - Tc (°C)	85	Not Applicable
Rated Lifetime (hr)	50,000	50,000
CE Compliance	EN/IEC 55015 (Class B) EN/IEC 61547: 2009 EN/IEC 61000-3-2, 3 EN/IEC 61347-1 EN/IEC 61347-2-13 EN/IEC 61000-4-2,3,4,5,6,8,11	EN/IEC 60598 (System) EN/IEC 55015 (Class B) EN/IEC 61547: 2009 EN/IEC 61000-3-2, 3 EN/IEC 61347-1 EN/IEC 61347-2-13 EN/IEC 61000-4-2,3,4,5,6,8,11
RoHS Compliance	Yes	Yes

HOW TO ORDER

	- 090	- 24V
<u>PRODUCT</u> EPSS = Enclosed Power Supply - Static PSS = Power Supply - Static*	<u>POWER</u> 090 = 90W	<u>OUTPUT VOLTS</u> 24V

Example: PSS-090-24V

*Consult Cooledge for dimming options

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