

Light is OSRAM

OSRAM

PrevaLED Performance Tunable White 560x24 mm

Product Specification

Ordering Information

Item No.	Ordering Abbreviation	Input Voltage (V)	Operating Current		Wattage		Nom. Lumens (lm)*	Nom. LPW	CCT	CRI	Dim (in)	Case Qty
			Nom. (mA)	Max. (mA)	Nom. (W)*	Max. (W)						
58288	PLTW-G1-Lin-2000-560x24	42.1	400	420	16.8	18.6	2000	119	2700	90	22.0 x 0.94	80
		41.5	340	420	14.1		2000	142	6500	90		

Notes:

1. All data is related to the entire module. Data reflects statistical mean values. Actual data may differ depending on variances in the manufacturing process.
2. Performance values were taken at steady state. Instant-on measurements may be higher.
3. Recommended for indoor use.
4. Tolerance for flux data is $\pm 7\%$.
5. Nominal rating at board Tc of 35°C ($\pm 5^\circ\text{C}$)

Certifications

The OSRAM PrevaLED Family is UL8750 Recognized for US and Canada Class 2 Units (UL File# E320662)

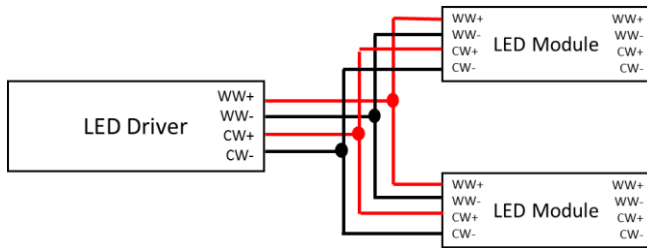


Ordering Guide

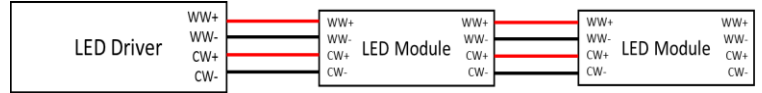
PL	TW	G1	-	Lin	-	2000	-	560x24
Sub-brand PL = PrevaLED®	Type Tunable White	Generation		Shape Linear, Bar, Area		Lumen Output		Size (mm)

Wiring Diagram

Parallel Connection



Daisy Chain Connection



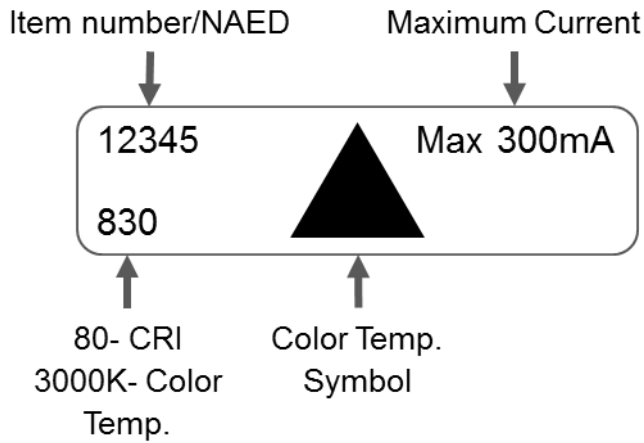
Notes:

1. Always ensure the load is within the power supply rating for current, voltage and wattage
2. Connecting boards in series may exceed Class 2 limits
3. The boards are UL Class 2 rated and therefore cannot be powered using non-class 2 LED drivers
4. The number of boards that can be connected in parallel depends on power supply output specification
5. The maximum number of boards that can be Daisy Chained (Parallel Daisy Chain Connection) vary based on design.

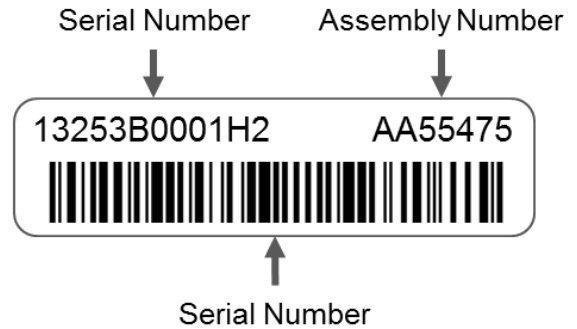
Product Labeling and Traceability

Each LED board has two product labels for traceability as shown below. Based on the spacing available, the labels may be placed on the bottom side.

Part Number Label



Serial Number Label



Color Temperature Symbols

2700K	3000K	3250K	3500K	4000K	5000K	5700K	6500K

Safety Information

WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION. TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES AND/OR MODULES.

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriter's Laboratories (UL) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction.

1. The LED module itself and all its components may not be mechanically stressed.
2. The LED module needs to be mounted on a heat sink providing adequate thermal dissipation.
3. Do not damage or destroy conducting paths on the circuit board.
4. The LED module is to be operated with Class 2 constant current control gear only. Not suitable for operation with line voltage.
5. The LED module cannot be operated safely when the housing is mechanically damaged.
6. For optimal cooling a thermal interface material should be applied between LED module and heat sink.
7. The LED module should be mounted to a heat sink with screws or suitable accessories. Maximum tightening torque for mounting screws needs to be observed as excessive force may damage the housing.
8. Installation of LED module needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installation.
9. Parallel connection of the LED modules is forbidden.
10. Damage by corrosion will not be honored as materials defect claim.
11. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements. The module is intended for use in dry and damp locations only.
12. Pay attention not to exceed the maximum operation temperature of 90°C at the Tc point when the modules are used in an enclosed environment.
13. The design of the housing/luminaire should be according to the IP standards applicable for the intended application.

Assembly Information

1. The modules need no supplemental heat sinking when the temperature at the Tc Point is maintained at or below 85°C. Service life when the Tc temperature is maintained is 60,000 hours/L70. When the environment is unknown, the modules should be installed in luminaires designed to provide proper thermal management to avoid premature failure of the product and to obtain expected service life. Service life (i.e. lumen depreciation) is primarily a function of LED temperature, which is to be monitored on the circuit board at the designated "Tc Point."
2. Due to variations in fixture designs, there is no exact installation prescription for obtaining an appropriate Tc Point temperature. In general, the modules should be adhered to a flat metal surface which has enough surface area to transfer the heat from the LEDs to the surrounding air. In some cases, the metal surface can be part of the mass of the fixture itself.
3. It is important to understand that once heat is transferred to a "heat sink" that heat must still be allowed to escape the "system." A heat sink transferring the thermal energy to the inside of an enclosed cavity may ultimately be of little use.
4. Tc Point temperature measurements should be taken with the modules operating at thermal equilibrium in potential fixture designs installed in an appropriate environment. Tc Point temperature can be measured with a standard thermocouple in direct contact with the circuit board at the Tc Point or with ML4C Series non-reversible OMEGALABELS (www.omega.com) or equivalent.
5. OSRAM recommends using **#8 (4mm)** with optics, pre-drilled screws with a head clearance **0.325" (8.25mm)** diameter for securing the PrevaLED Linear & Area boards.
6. Recommended input and board to board connections: Use **18-24 AWG** solid core wire with a strip length of **7-9 mm**. Use direct push-in of solid conductors. Wires can be released by twisting and pulling the wire simultaneously.

Warranty

OSRAM LED products are covered by our LED Module, OPTOTRONIC® Power Supply or Control warranty. The LED Module is covered under warranty as long as the temperature at the Tc point does not exceed 85°C; exceeding this temperature will void all warranties. For additional warranty information or to download the warranty registration form visit www.osram.us/warranty.

Module Warranty: 3 years
System Warranty: 5 years

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LED-DS136

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