



# DATA SHEET

## GLV91560201 Series

Part of the simpleLED® Program

## SimpleLED® GLV91560201 SERIES

The light engine series consist of 90pcs Samsung LM561B Middle power LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications. The module series is complied with IEC62031 Class III, it can connect with UL Class II driver ( please confirm with us if any other applications).

## PRODUCT DESCRIPTION

Multiple CCTs available (2700K-5000K)  
80 & 90 minimum CRI options  
Up to 5050lm per board  
3.5 step MacAdam color binning  
LM-80 compliant mid-power LEDs  
3-Year Warranty

## TARGET APPLICATIONS

Office Lighting  
High Bay  
Poster Box  
Cove Lighting  
Wall Wash  
Under-Cabinet

## APPLIED STANDARDS

IEC 62031, IEC 60068-2, UL

Note: All specifications are subject to change without notice.

## SimpleLED® GLV91560201/CW-JF90 WHITE SERIES

PARAMETER	CONDITIONS
PCB (MCPCB) Size	FR4; 560x20mm
	UL component file number:E123995
Source Type	90pcs Samsung 5630B
	UL component file number: E347623
Circuit Layout	6P x 15S
Connector Type	Wago connector: 2060-401/998-404
	UL component file number: E45171

## PRODUCT SELECTION GUIDE

PART NUMBER	CCT	CRI (min.)
GLV91560201/CW-JF90I27A	2700K	80
GLV91560201/CW-JF90I30A	3000K	80
GLV91560201/CW-JF90K30A		90
GLV91560201/CW-JF90I35A	3500K	80
GLV91560201/CW-JF90I40A	4000K	80
GLV91560201/CW-JF90K40A		90
GLV91560201/CW-JF90I50A	5000K	80

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## BOARD OPTICAL CHARACTERISTICS (@ 700mA, Ts=25 °C)

BOARD	CCT	CRI	FLUX (LM)		EFFICACY (LM/W)	
		MIN.	MIN.	TYP.	MIN.	TYP.
GLV91560201/ CW-JF48 Series	2700K	80	4284	4437	127	145
	3000K	80	4360	4513	129	148
		90	3748	3901	111	128
	3500K	80	4437	4590	132	150
	4000K	80	4590	4743	136	155
		90	4131	4284	122	140
	5000K	80	4743	4896	141	160

## BOARD ELECTRICAL CHARACTERISTICS (@ 700mA, Ts=25 °C)

	Min.	Typ.	Max.
Voltage (V)**	40.5	43.5	48
Total Board Power (W)	28.35	30.45	33.6
Driver Current (mA)***	700	700	700

## ENVIRONMENTAL CHARACTERISTICS

	Min.	Max.
Storage Temperature	-40°C	100°C
	Max.	
PCB Temperature (T <sub>c</sub> )	80°C	

### NOTES

\*Data stated @1050 mA, T<sub>j</sub> = 25°C. Use for reference only since application temperature and LED driver current have influence on lumen output. Safe operation only possible by the use of external constant current sources. The current source used for operation, must have the following protections

- Short-circuit protection
- Overload protection
- Over-temperature protection

\*\*LED SUPPLIER maintains a tolerance of ±0.1V on forward voltage measurements.

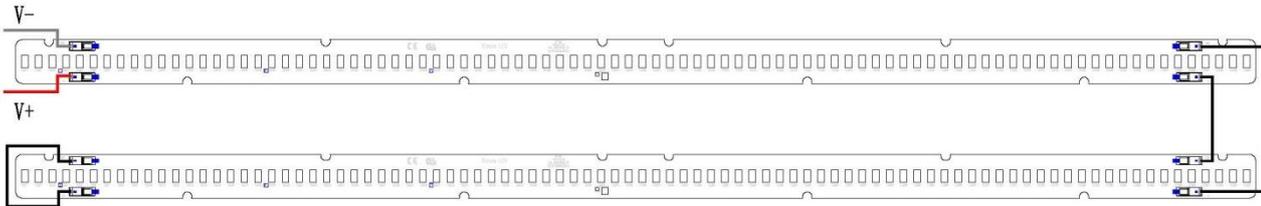
\*\*\*Proper current de-rating must be observed to maintain junction temperature below the maximum.

Different CCTs available upon request. Contact your local sales representative.

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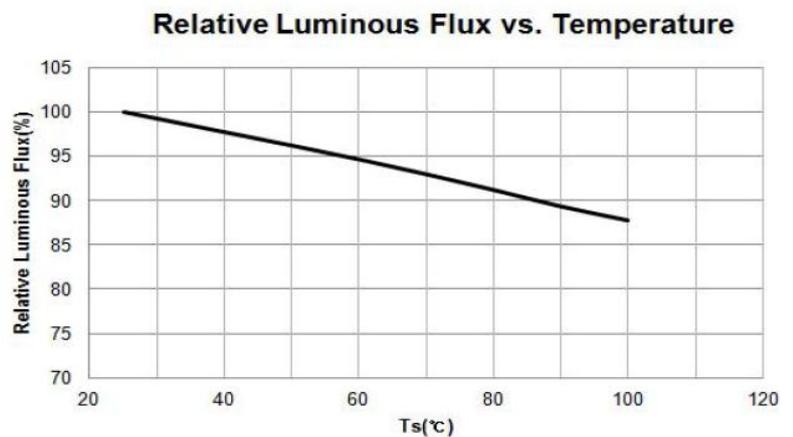
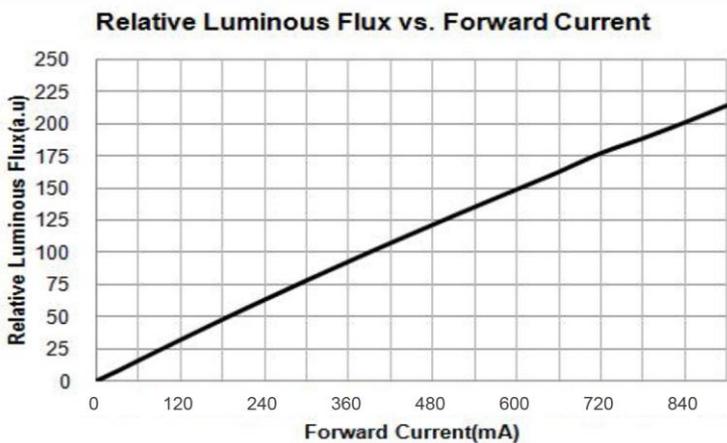
## INTERCONNECTIVITY OPTIONS

Board-to-Board wiring options and drawings.



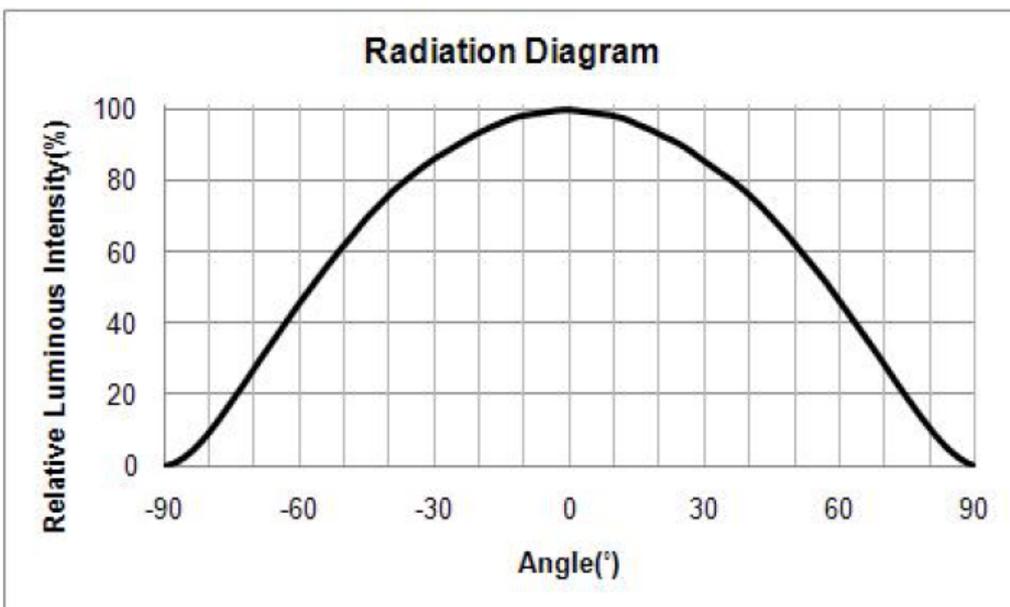
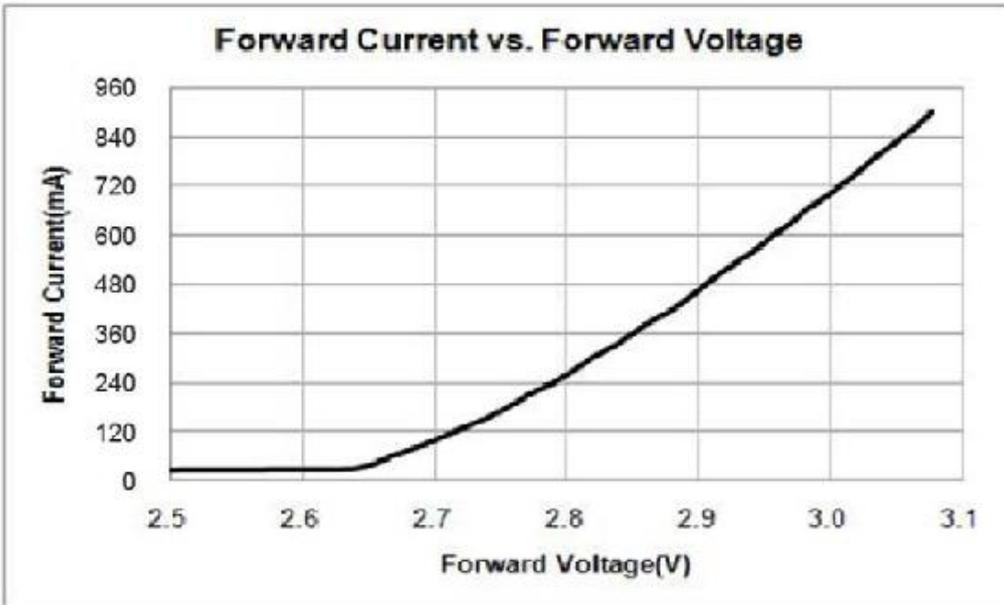
GLV91560201/CW-JF90	
Maximum connection units	4PCS

## TYPICAL CHARACTERISTICS GRAPHS



Note: All specifications are subject to change without notice.

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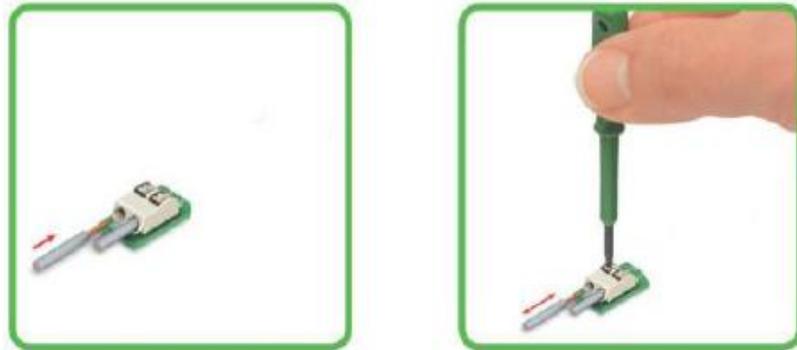




## Assembly and Safety Information

Installation must be done according to relevant regulations and standards. The following guidelines should be respected:

- Installation must be carried out in a voltage-free state;
- The device/module contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken;
- A thermal interface material should be applied to the base of the PCB before fixing it onto a heat sink with screws. The fixing/cooling surface must be cleaned prior to installing the PCB to remove all dirt, dust and grease. The light engine must not be bent to avoid damaging the LEDs.
- The adhesive film can be ordered separately. Contact your local sales representative.
- Use wire size AWG 24-18 to connect the PCB to the constant-current power supply.
- Conductors must be inserted at a 0° angle to the PCB.
- Wires must be stripped to 6-7 mm (solid & stranded).



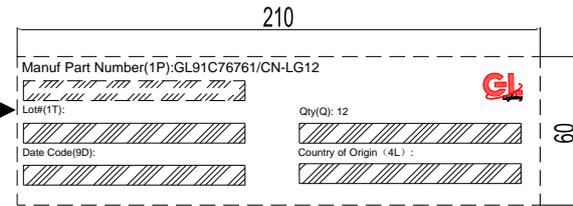
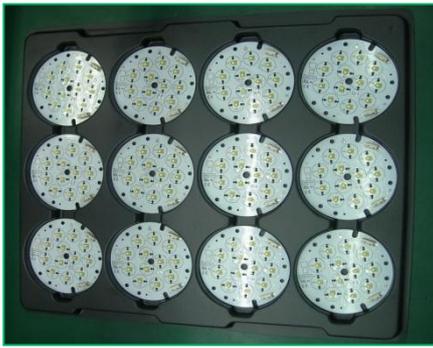
1. Insert solid conductors via push-in termination.
2. Insert/remove fine-stranded conductors by lightly pressing on the push-button

- The pressure on the LEDs will influence their reliability. Precautions should be taken to avoid such pressure.
- Do not stack PCBs on each other. LED materials are soft and this could lead to catastrophic failure of the LEDs.
- Chemicals can be harmful to the LEDs used on the module. It is recommended not to use chemicals anywhere in an LED system. The fumes from even small amounts of chemicals may damage the LEDs. The list of harmful chemicals can be viewed in application brief AB203 for the LED (<http://philipslumileds.com/>).
- Using corrugated boxes as packaging is only allowed if the sulfur used in the box is less than 850 ppm.
- Please ensure the correct polarity of the leads.
- For outdoor or damp locations, care must be taken to protect the LED PCB against moisture. There is the possibility of coating the board. Please contact your local sales representative for more information.

All of the above guidelines must be followed in order to qualify for the 3-year warranty. There is the possibility to extend to a 5-year warranty, please contact your local sales representative.

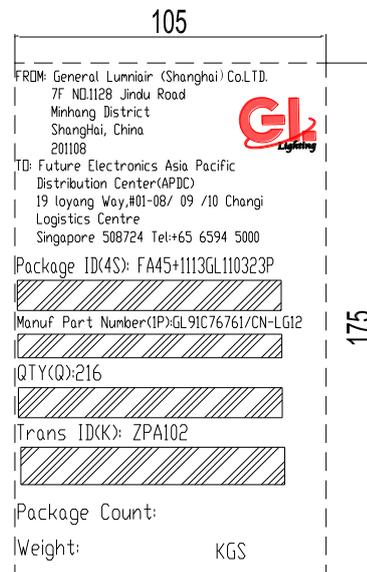
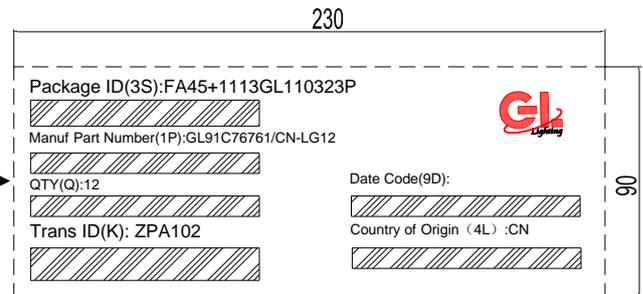
## PACKAGING INFORMATION

INNER PACKING	SIZE	TRAY	QTY
TYPE	345*295*11mm	1	20



INNER PACKING	SIZE	TRAY	QTY
TYPE 1	350*300*250mm	15	300

## PRODUCT LABELLING



Note: All specifications are subject to change without notice.