

DATA SHEET

GLV92CA6A61 Series

Part of the simpleLED® Program

simpleLED® GLV92CA6A61 SERIES

The light engine series consist of 12/20 high power LUXEON® M LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications. Customers also have the option of modifying their light engine by selecting their preferred LUXEON® M LED, optic and/or connector that best suits the application.

FEATURES & BENEFITS

- 3 year manufacturer (GL-Lighting) warranty
- High-reliability LED sources
- Wide operational temperature range
- Multiple configurable options
- Multiple optic options
- Wide range of drive current
- Multiple CCT's available
- 12/20 LEDs in series
- Short lead time
- Complied with IEC62031, UL-Recognized Components

TYPICAL APPLICATIONS

- Down Lighting
- Recessed Lighting
- Flood Lighting
- Low Bay
- High Bay
- Area Lighting

Note: All specifications are subject to change without notice.

simpleLED® GLV92CA6A61-LM12 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 106mm
Connector	00	Solder Pad
	20	20cm UL1007 20Awg Solid Wire
	CW	Wago connector 2060-802/998-404
Thermal Resistance (p-n junction to Tp)		Rth= 1.25 °C/W (MCPCB)
Thermal Resistance (Ts to Tp)		Approx. 1.28°C/W
Thermal Resistance (Ts to the back of Tp)		Approx. 1.52°C/W
Tp Maximum Temperature		≤100 °C

Note: $T_j = T_p + (R_{j-s} + R_{s-p}) \times \text{Power of single LED}$

PERFORMANCE SPECIFICATIONS (@ $T_p^*=85^\circ\text{C}$, $I_o=700\text{mA}$)

SOURCE TYPE		LUXEON® LXR7 x 12									
CRI		Min.70									
CCT		3000K		4000K		5000K		5700K		6500K	
Typical Light Output (lm)		Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
		9600	10140	10080	10860	10080	10860	10080	10860	10080	10860
Efficacy (lm/w)	Min.	95	100	100	107	100	107	100	107	100	107
	Typ.	102	107	107	115	107	115	107	115	107	115
	Max.	108	115	114	123	114	123	114	123	114	123

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V)	126	134.4	144
Power Consumption @700mA (W)	88.2	94.08	100.8
Driving Current	100mA	700mA	1050mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-40	+85

*At pulse test conditions, $T_p = T_j = 85^\circ\text{C}$

Note: All specifications are subject to change without notice.

simpleLED® GLV92CA6A61-LM20 WHITE SERIES

PARAMETER		CONDITIONS
PCB		MCPCB
Finish		White
Size		Dia 106mm
Connector	00	Solder Pad
	20	20cm UL1007 20Awg Solid Wire
	CW	Wago connector 2060-802/998-404
Thermal Resistance (p-n junction to Tp)		Rth= 1.25 °C/W
Thermal Resistance (Ts to Tp)		Approx. 1.63°C/W
Thermal Resistance (Ts to the back of Tp)		Approx. 2.04°C/W
Tp Maximum Temperature		≤100 °C

Note: $T_j = T_p + (R_{j-s} + R_{s-p}) \times \text{Power of single LED}$

PERFORMANCE SPECIFICATIONS (@ $T_p^*=85^\circ\text{C}$, $I_o=700\text{mA}$)

SOURCE TYPE		LUXEON® LXR7 x 20									
CRI		Min.70									
CCT		3000K		4000K		5000K		5700K		6500K	
Typical Light Output (lm)	Min.	16000	16900	16800	18100	16800	18100	16800	18100	16800	18100
	Typ.	16900	16900	18100	18100	18100	18100	18100	18100	18100	18100
Efficacy (lm/w)	Min.	95	100	100	107	100	107	100	107	100	107
	Typ.	102	107	107	115	107	115	107	115	107	115
	Max.	108	115	114	123	114	123	114	123	114	123

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V)	210	224	240
Power Consumption @700mA (W)	147	156.8	168
Driving Current	100mA	700mA	1050mA

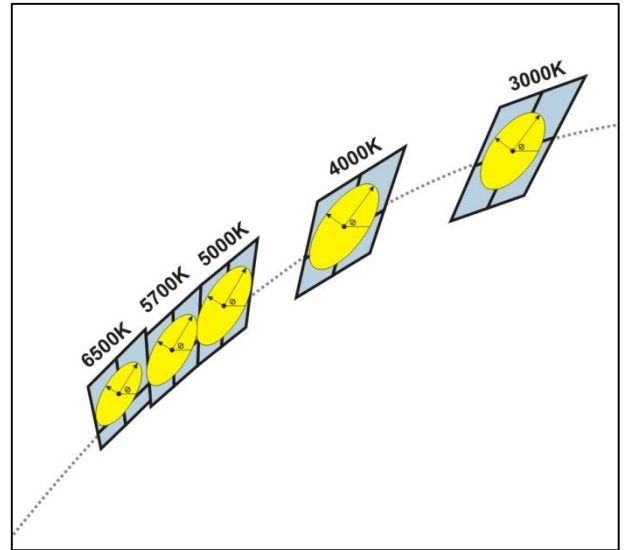
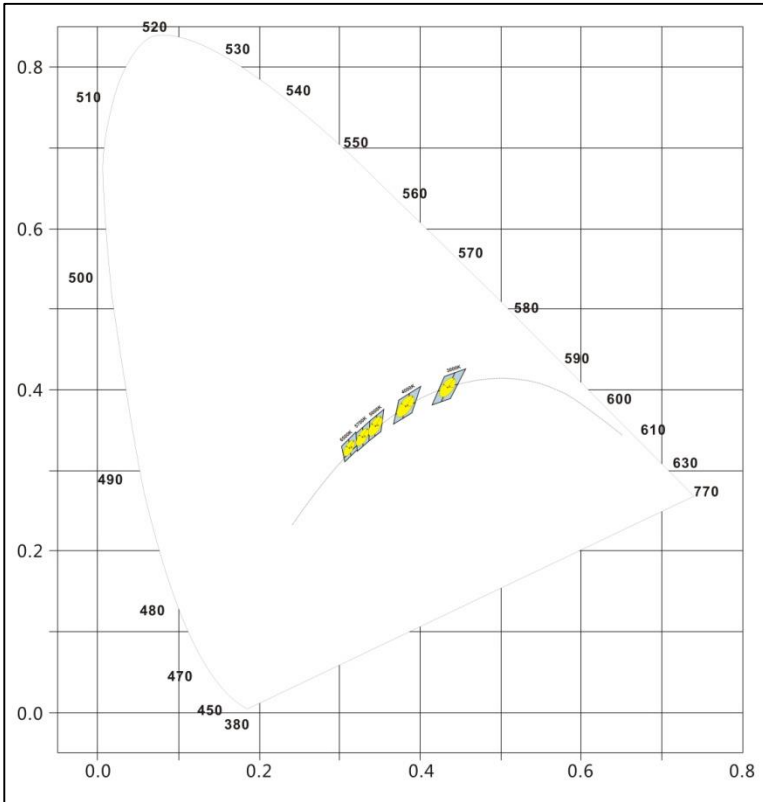
ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (°C)	-40	+100
Tp Temperature (°C)	-40	+85

*At pulse test conditions, $T_p = T_j = 25^\circ\text{C}$

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CHROMATICITY DIAGRAM



-  - ANSI Binning Area
 -  - 5-step MacAdam Ellipse White Color Bin Definition
- for LXR7-SW**

CHROMATICITY COORDINATE – ANSI BINNING

3000K* ANSI		4000K* ANSI		5000K* ANSI		5700K* ANSI		6500K* ANSI	
x	y	x	y	x	y	x	y	x	y
0.4299	0.4165	0.3736	0.3874	0.3376	0.3616	0.3207	0.3462	0.3028	0.3304
0.4562	0.4260	0.4006	0.4044	0.3551	0.3760	0.3376	0.3616	0.3205	0.3481
0.4147	0.3814	0.3670	0.3578	0.3366	0.3369	0.3222	0.3243	0.3068	0.3113
0.4373	0.3893	0.3898	0.3716	0.3515	0.3487	0.3366	0.3369	0.3221	0.3261

Color consistency targeting a Single 5-step MacAdam Ellipse

Part Number	Nominal ANSI CCT	Center Point (cx,cy)	Major Axis,a	Minor Axis,b	Ellipse Rotation Angle (Degrees)
LXR7-SW30	3000K	0.4338,0.4030	0.01390	0.00680	53.22
LXR7-SW40	4000K	0.3818,0.3797	0.01565	0.00670	53.72
LXR7-SW50	5000K	0.3447,0.3553	0.01370	0.00590	59.62
LXR7-SW57	5700K	0.3287,0.3417	0.01243	0.00533	59.09
LXR7-SW65	6500K	0.3123,0.3282	0.01115	0.00475	58.57

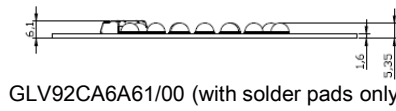
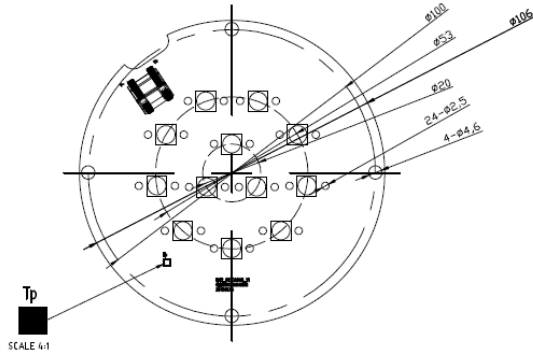
* The tolerances of the x,y coordinates. +/- 0.01

Note: All specifications are subject to change without notice.

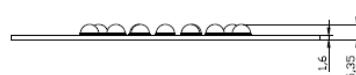
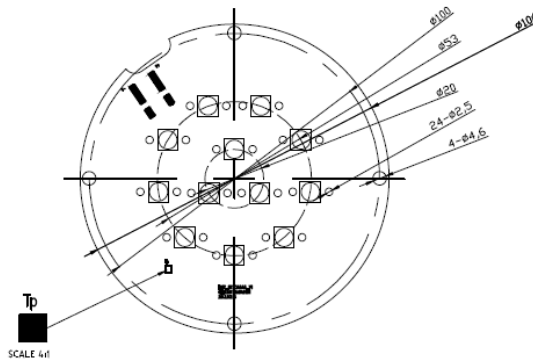
MECHANICAL DRAWINGS (GLV92CA6A61-LM12 / MCPCB)

2D drawing with dimensions:

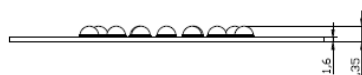
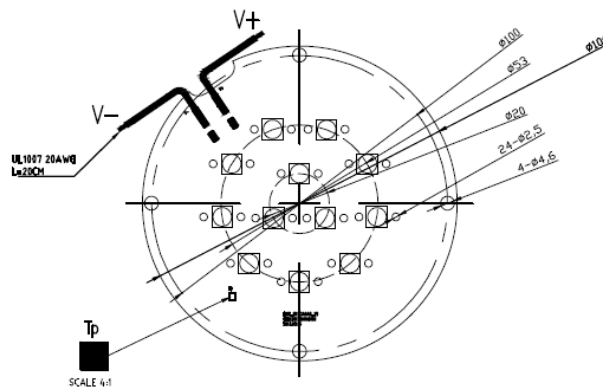
(Unit: mm)



GLV92CA6A61/00 (with solder pads only)



GLV92CA6A61/CW (with Wago connector)



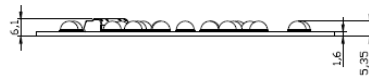
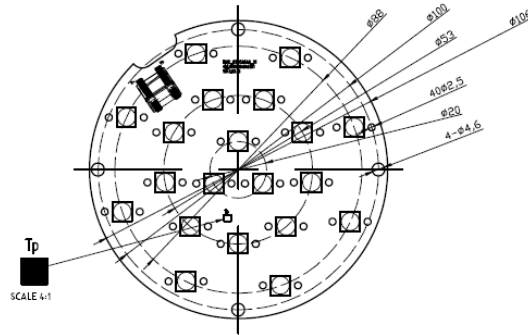
GLV92CA6A61/20 (with 20cm lead wire)

Note: All specifications are subject to change without notice.

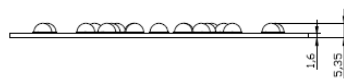
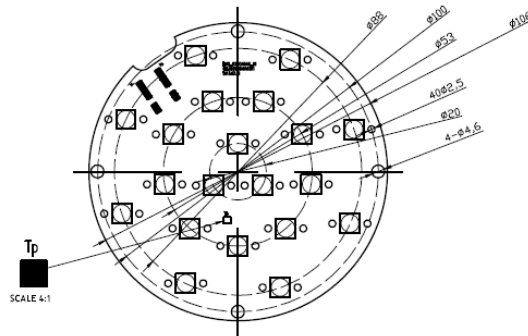
MECHANICAL DRAWINGS (GLV92CA6A61-LM20 / MCPCB)

2D drawing with dimensions:

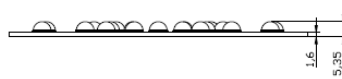
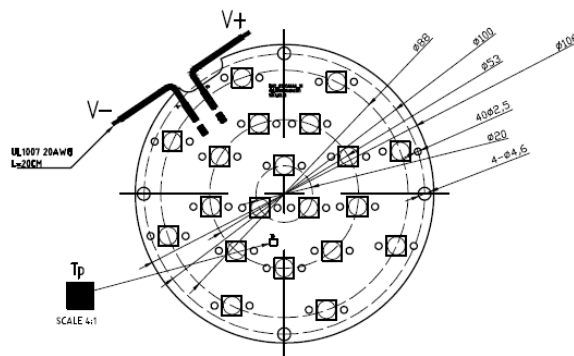
(Unit: mm)



GLV92CA6A61/00 (with solder pads only)



GLV92CA6A61/CW (with Wago connector)



GLV92CA6A61/20 (with 20cm lead wire)

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PART NUMBERING & ORDERING INFORMATION

<p>1. PRODUCT SERIES GLV92CA6A61 Circular MCPCB with 12 or 20 LEDs</p>	<p>3. LED TYPE LM - LXR7 LUXEON® M</p>	<p>6. FLUX BIN Q – Min. 780-840 and up@700mA R – Min. 840-900 and up@700mA</p>
<p>2. CONNECTOR TYPE 00 – Solder Pad 20 – 20cm UL1007 20Awg Solid Wire CW – Wago 2060-802/998-404</p>	<p>4. NUMBER OF LED 12- 12 LEDs 20 – 20 LEDs</p>	
	<p>5. CCT S30 – 3000K ANSI S40 – 4000K ANSI S50 – 5000K ANSI S57 – 5700K ANSI S65 – 6500K ANSI</p>	

Part Number :

GLV92CA6A61 / AA – BB CC DDD E

1
2
3
4
5
6

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COMPANY INFORMATION

About Future Lighting Solutions

Future Lighting Solutions (www.futurelightingsolutions.com) is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

About simpleLED®

Future Lighting Solutions simpleLED program has over 500 combinations of LUXEON® LED & Optic configurations, enabling you to select the right Light Engine for your application, eliminate prototyping delays and accelerating time to market. Additional benefits include UL recognized quality and a 3 year warranty. Visit our website and start innovating.

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Note: All specifications are subject to change without notice. Warranty provided by the manufacturer, GL-Lighting.