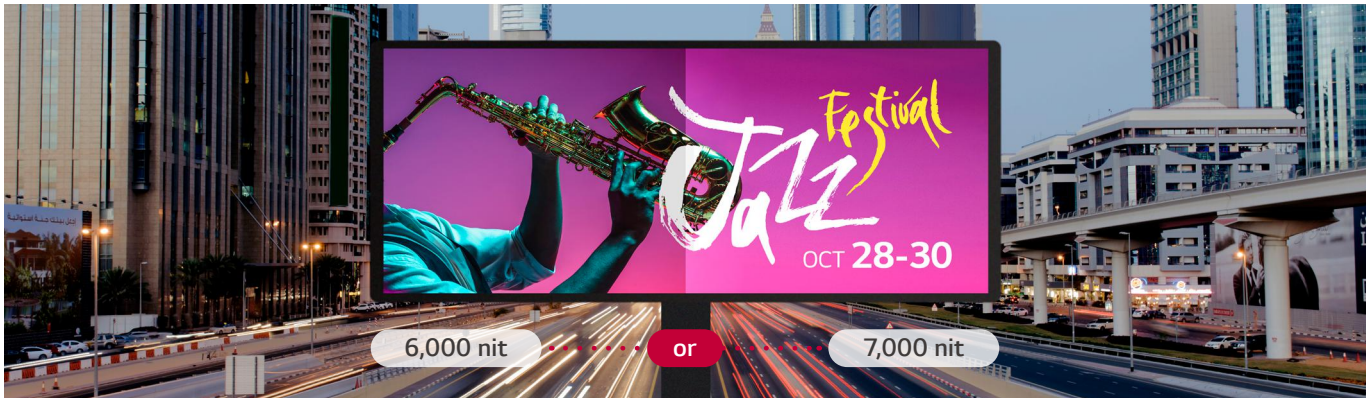
* All images in this datasheet are for illustrative purposes only.

**Outdoor LED** GSEG

# Ultra High Brightness Series

- High Brightness for Outdoor
- Available for Curved Screen
- Easy Installation and Maintenance
- Compatibility with LG Software Solutions

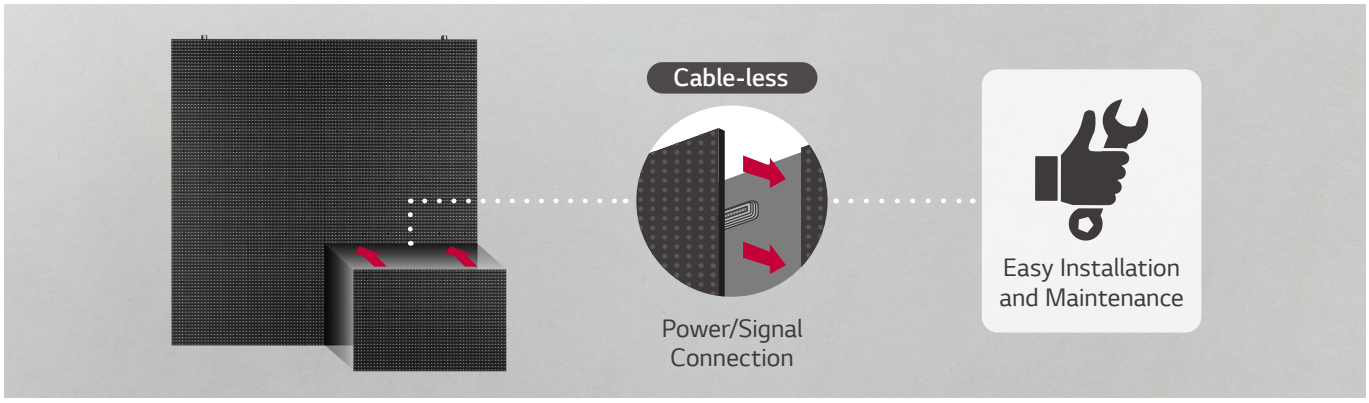
| GSEG | |
|---|---|
| Pixel Pitch | 5.95 / 8.33 / 10.42 mm |
| Brightness | 7,000 / 6,000 nit |
| Weight per Cabinet | 25.0 kg/Cabinet |
| Service Access | Front and Rear |
| IP Rating | IP65 |




## High Brightness for Outdoor

Optionally, users can choose between the two models: GSEG-GR(7,000 nits) and GSEG-GN(6,000 nits). It also can be optimized for screen time, region, regulations, and power consumption etc. depending on different environmental conditions.

* Brightness options are set before shipment from the factory, and cannot be changed after installation.




## Easy Installation and Maintenance

It comes with a guide pin to make easy adjustment for the upper and lower side of cabinet. With optimum cable-less design, it connects the LED module and the system part of the cabinet with no cables, allowing simple power/signal connection to be automatically completed when LED module is installed. Fully enclosed connection improves its hardware reliability as well.

## Compatibility with LG Software Solutions

When connected with LG's CVEA system controller, the GSEG series is compatible with LG software solutions including SuperSign CMS, LED Assistant, and ConnectedCare, which help customers operate their own business properly.

* The availability of the 'LG ConnectedCare' service differs by region, and it needs to be purchased separately. So please contact the LG sales representative in your region for more details.
* The items that can be monitored by LG ConnectedCare : Main Board (Temp., Signal Status, FPGA Ver, Ethernet Connection Status), Receiving Card (Temp., LED Power)
* Actual GUI may vary in different webOS versions.
* LG Software solutions needs to be purchased separately.

# SPECIFICATIONS

| | | GSEG060-GR | GSEG083-GR | GSEG100-GR |
|---|---|---|---|---|
| Pitch Name | | P5.95 | P8.33 | P10.42 |
| Physical Parameters | Pixel Configuration | Single SMD | Single SMD | Single SMD |
| | Pixel Pitch (mm) | 5.95 | 8.33 | 10.42 |
| | Module Resolution (W × H) | 84 × 56 | 60 × 40 | 48 × 32 |
| | Module Dimensions (W × H, mm) | 500 × 333.33 | 500 × 333.33 | 500 × 333.33 |
| | Weight per Module (kg) | 2.05 | 2.05 | 2.05 |
| | No. of Modules per Cabinet (W × H) | 2 × 3 | 2 × 3 | 2 × 3 |
| | Cabinet Resolution (W × H) | 168 × 168 | 120 × 120 | 96 × 96 |
| | Cabinet Dimensions (W × H × D, mm) | 1,000 × 1,000 × 105 | 1,000 × 1,000 × 105 | 1,000 × 1,000 × 105 |
| | Cabinet Surface Area (m²) | 1.000 | 1.000 | 1.000 |
| | Weight per Cabinet (kg/Cabinet) | 25.0 | 25.0 | 25.0 |
| | Weight per Square Meter (kg/m²) | 25.0 | 25.0 | 25.0 |
| | Physical Pixel Density (pixels/m²) | 28,224 | 14,400 | 9,216 |
| | Flatness of Cabinet (mm) | ±1.0 | ±1.0 | ±1.0 |
| | Cabinet Material | Al | Al | Al |
| | Service Access | Front and Rear | Front and Rear | Front and Rear |
| Optical Specifications | Max Brightness (After Calibration, nit) | 7,000 | 7,000 | 7,000 |
| | Color Temperature (K) | 3,200-9,300 | 3,200-9,300 | 3,200-9,300 |
| | Visual Viewing Angle (H × V) | 160 × 115 | 160 × 120 | 160 × 130 |
| | Brightness Uniformity | 97% | 97% | 97% |
| | Color Uniformity | ±0.05 Cx, Cy | ±0.05 Cx, Cy | ±0.05 Cx, Cy |
| | Contrast Ratio | 5,000 : 1 | 7,000 : 1 | 9,000 : 1 |
| | Processing Depth (bit) | 16 (HDR10, HDR10 Pro) | 16 (HDR10, HDR10 Pro) | 16 (HDR10, HDR10 Pro) |
| Electrical Specifications | Power Consumption (W/Cabinet, Max.) | 650 | 650 | 650 |
| | Power Consumption (W/Cabinet, Avg.) | 260 | 260 | 260 |
| | Power Consumption (W/m², Max.) | 650 | 650 | 650 |
| | Heat Dissipation (BTU/h/Cabinet, Max.) | 2,218 | 2,218 | 2,218 |
| | Heat Dissipation (BTU/h/Cabinet, Avg.) | 887 | 887 | 887 |
| | Heat Dissipation (BTU/h/m², Max.) | 2,218 | 2,218 | 2,218 |
| | Power Supply (V) | 100 to 240 | 100 to 240 | 100 to 240 |
| | Frame Rate (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| | Refresh Rate (Hz) | 5,040 | 7,680 | 7,680 |
| Operation Specifications | LED Lifetime (Half Brightness) | 100,000 | 100,000 | 100,000 |
| | Operating Temperature (°C) | -30 to +50 | -30 to +50 | -30 to +50 |
| | Operating Humidity | 0-90% RH | 0-90% RH | 0-90% RH |
| | IP Rating Front / Rear | IP65 / IP65 | IP65 / IP65 | IP65 / IP65 |
| Certification | | CE / FCC / ETL | CE / FCC / ETL | CE / FCC / ETL |
| Environment | | RoHS, REACH | RoHS, REACH | RoHS, REACH |
| Controller | | CVEA | CVEA | CVEA |
| 90 Degree Corner Cut | | Yes | Yes | Yes |

# SPECIFICATIONS

| | | GSEG060-GN | GSEG083-GN | GSEG100-GN |
|---|---|---|---|---|
| Pitch Name | | P5.95 | P8.33 | P10.42 |
| Physical Parameters | Pixel Configuration | Single SMD | Single SMD | Single SMD |
| | Pixel Pitch (mm) | 5.95 | 8.33 | 10.42 |
| | Module Resolution (W × H) | 84 × 56 | 60 × 40 | 48 × 32 |
| | Module Dimensions (W × H, mm) | 500 × 333.33 | 500 × 333.33 | 500 × 333.33 |
| | Weight per Module (kg) | 2.05 | 2.05 | 2.05 |
| | No. of Modules per Cabinet (W × H) | 2 × 3 | 2 × 3 | 2 × 3 |
| | Cabinet Resolution (W × H) | 168 × 168 | 120 × 120 | 96 × 96 |
| | Cabinet Dimensions (W × H × D, mm) | 1,000 × 1,000 × 105 | 1,000 × 1,000 × 105 | 1,000 × 1,000 × 105 |
| | Cabinet Surface Area (m²) | 1.000 | 1.000 | 1.000 |
| | Weight per Cabinet (kg/Cabinet) | 25.0 | 25.0 | 25.0 |
| | Weight per Square Meter (kg/m²) | 25.0 | 25.0 | 25.0 |
| | Physical Pixel Density (pixels/m²) | 28,224 | 14,400 | 9,216 |
| | Flatness of Cabinet (mm) | ±1.0 | ±1.0 | ±1.0 |
| | Cabinet Material | Al | Al | Al |
| | Service Access | Front and Rear | Front and Rear | Front and Rear |
| Optical Specifications | Max Brightness (After Calibration, nit) | 6,000 | 6,000 | 6,000 |
| | Color Temperature (K) | 3,200-9,300 | 3,200-9,300 | 3,200-9,300 |
| | Visual Viewing Angle (H × V) | 160 × 115 | 160 × 120 | 160 × 130 |
| | Brightness Uniformity | 97% | 97% | 97% |
| | Color Uniformity | ±0.05 Cx, Cy | ±0.05 Cx, Cy | ±0.05 Cx, Cy |
| | Contrast Ratio | 4,000 : 1 | 6,000 : 1 | 8,000 : 1 |
| | Processing Depth (bit) | 16 (HDR10, HDR10 Pro) | 16 (HDR10, HDR10 Pro) | 16 (HDR10, HDR10 Pro) |
| Electrical Specifications | Power Consumption (W/Cabinet, Max.) | 680 | 680 | 680 |
| | Power Consumption (W/Cabinet, Avg.) | 272 | 272 | 272 |
| | Power Consumption (W/m², Max.) | 680 | 680 | 680 |
| | Heat Dissipation (BTU/h/Cabinet, Max.) | 2,321 | 2,321 | 2,321 |
| | Heat Dissipation (BTU/h/Cabinet, Avg.) | 928 | 928 | 928 |
| | Heat Dissipation (BTU/h/m², Max.) | 2,321 | 2,321 | 2,321 |
| | Power Supply (V) | 100 to 240 | 100 to 240 | 100 to 240 |
| | Frame Rate (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| | Refresh Rate (Hz) | 5,040 | 7,680 | 7,680 |
| Operation Specifications | LED Lifetime (Half Brightness) | 100,000 | 100,000 | 100,000 |
| | Operating Temperature (°C) | -30 to +50 | -30 to +50 | -30 to +50 |
| | Operating Humidity | 0-90% RH | 0-90% RH | 0-90% RH |
| | IP Rating Front / Rear | IP65 / IP65 | IP65 / IP65 | IP65 / IP65 |
| Certification | | CE / FCC / ETL | CE / FCC / ETL | CE / FCC / ETL |
| Environment | | RoHS, REACH | RoHS, REACH | RoHS, REACH |
| Controller | | CVEA | CVEA | CVEA |
| 90 Degree Corner Cut | | Yes | Yes | Yes |

* Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.

Download
LG C-Display+
Mobile App
Google Play Store

www.lg.com/global/business/information-display
www.youtube.com/c/LGECommercialDisplay
www.facebook.com/LGInformationDisplay
www.linkedin.com/company/lginformationdisplay
twitter.com/LG_ID_HQ

LG may make changes to specifications and product descriptions without notice. Copyright © 2022 LG Electronics Inc. All rights reserved. "LG Life's Good" is a registered trademark of LG Corp. The names of products and brands mentioned here may be the trademarks of their respective owners.

LG Business Solutions