



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

Outdoor LED GNPA Series

Marine Grade Outdoor LED Signage



Durability for
Rough Environment



Flexible Configuration
and Installation



Lightweight Design



High Refresh Rate



Wide Viewing
Angle



Compatible with LG
Software Solutions

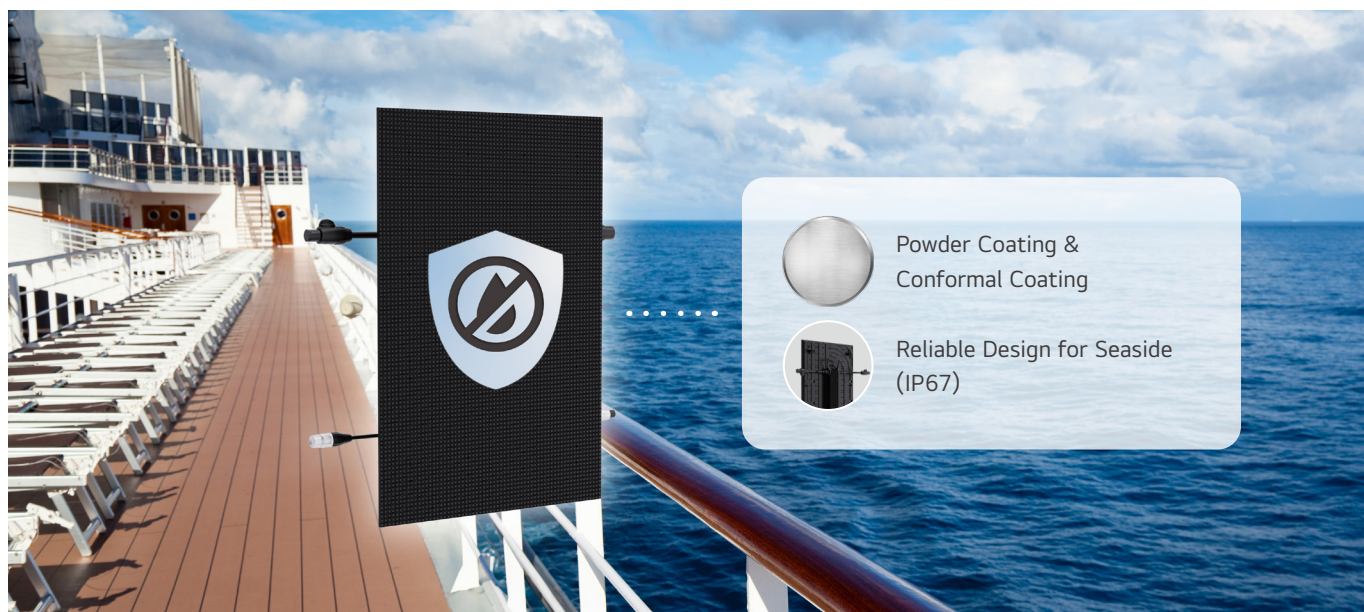
GNPA Series

Pixel Pitch	6.25 / 8.33 mm
Brightness	6,000 nits (Max.)
Weight per Cabinet	10.5 lbs. / 4.6 kg
Service Access	Front and Rear
IP Rating Front / Rear	IP67 / IP67



Perfectly Complimenting the Cruise Experience

Cruise travel offers a special moment that goes beyond just a means of transportation, allowing passengers to experience both comfort and luxury. LG marine-grade outdoor DVLED technology envelops guests in vibrant and clear images from the moment they board, creating the perfect stage for an exciting cruise journey. The IP67-rated GNPA series performs exceptionally well even by the poolside or outdoors, providing a visual experience that all passengers can enjoy.



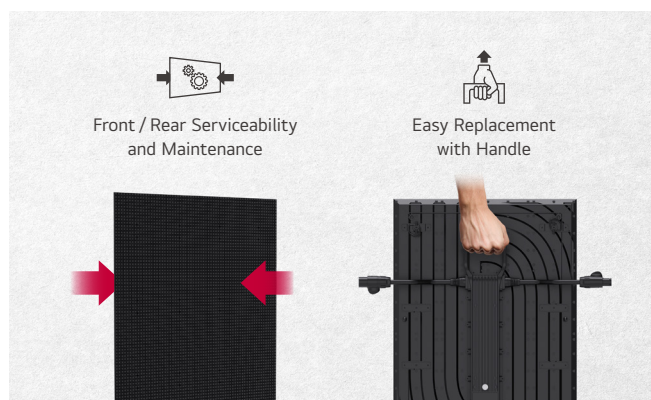
Durability for Rough Environment

The GNPA series is designed to ensure durability through its powder coating and conformal coating, which help protect against moisture in challenging marine environments and weather conditions. Both the front and rear of the cabinet are IP67-certified, featuring robust designs that are particularly suitable for seaside locations. Notably, the concealed front screws on the front side minimize the potential risk of corrosion. This design helps to ensure stable power and data connections, safeguarding them from outdoor elements such as wet weather. Additionally, each LED module is independent, equipped with its own receiver card and power supply unit (PSU), ensuring that it does not rely on the cabinet configuration.



Flexible Configuration

The cabinet size can be adjusted based on the screen configuration, starting with the basic unit of the Super Module (400 × 600). Based on the Super Module as the basic unit, various sizes of Super Cabinets can be configured with optional reinforcing bars. For example, a configuration of up to 3,200 × 3,600 is also possible. This design minimizes the inconvenience of lifting multiple smaller cabinets.



Easy Maintenance

The product provides convenient access from both the front and rear, featuring a modular cabinet power distribution unit that can be easily attached or detached for straightforward maintenance. Additionally, a self-contained power supply unit and receiver card equipped with handles enable quick and virtually effortless replacement.



Compatibility with LG Software Solutions

When connected with LG's CVGA system controller, the GSPC series is compatible with LG software solutions including SuperSign® CMS, LED Assistant, and ConnectedCare™, which help customers operate their own business effectively. The items that can be monitored by LG ConnectedCare include main board temperature, signal status, FPGA version, ethernet connection status, receiving card temperature, and LED power.

* Actual user interface may vary in different webOS versions. LG software solutions are optional and need to be purchased separately

SPECIFICATIONS

		GNPA062-CG/CGW	GNPA083-CG/CGW
Physical Parameters	Pitch Name	P6.25	P8.33
	Pixel Configuration	Single SMD	Single SMD
	Pixel Pitch (mm)	6.25	8.33
	Module Resolution (W × H)	64 × 96	48 × 72
	Module Dimensions (W × H)	15.7 × 23.6 in. / 400 × 600 mm	15.7 × 23.6 in. / 400 × 600 mm
	Weight per Module	10.1 lbs. / 4.6 kg	10.1 lbs. / 4.6 kg
	No. of Modules per Cabinet (W × H)	1 × 1	1 × 1
	Cabinet Resolution (W × H)	64 × 96	48 × 72
	Cabinet Dimensions (W × H × D)	15.7 × 23.6 × 2.3 in. 400 × 600 × 58 mm	15.7 × 23.6 × 2.3 in. 400 × 600 × 58 mm
	Cabinet Surface Area	2.6 ft ² / 0.24 m ²	2.6 ft ² / 0.24 m ²
	Weight per Cabinet	10.1 lbs. / 4.6 kg	10.1 lbs. / 4.6 kg
	Weight per Square Meter	3.9 lbs/ft ² / 19 kg/m ²	3.9 lbs/ft ² / 19 kg/m ²
	Physical Pixel Density (pixels/m ²)	25,600	14,400
	Flatness of Cabinet (mm)	±1.0	±1.0
	Cabinet Material	Aluminum	Aluminum
	Service Access	Front & Rear	Front & Rear
Optical Specifications	Max. Brightness (nits)	Up to 6,000	Up to 6,000
	Color Temperature (K)	3,200-9,300	3,200-9,300
	Visual Viewing Angle (H × V)	160 × 120	160 × 120
	Brightness Uniformity	97%	97%
	Color Uniformity	±0.03 Cx,Cy	±0.03 Cx,Cy
	Contrast Ratio	10,000:1	10,000:1
	Processing Depth (bit)	16 (HDR10, HDR10 Pro)	16 (HDR10, HDR10 Pro)
Electrical Specifications	Max. Power Consumption (W)	145	145
	Avg. Power Consumption (W)	48	48
	Max. Power Consumption per Unit Area (W/m ²)	605	605
	Max. Heat Dissipation (BTU/h)	495	495
	Avg. Heat Dissipation (BTU/h)	164	164
	Max. Heat Dissipation per Unit Area (BTU/h/m ²)	2,064	2,064
	Power Supply (Vac.)	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60
	Refresh Rate (Hz)	7,680	7,680
Operation Specifications	Lifetime - Half Brightness (hours)	Up to 100,000	Up to 100,000
	Operating Temperature	-22°F to +122°F / -30°C to +50°C	-22°F to +122°F / -30°C to +50°C
	Operating Humidity	0-90% RH	0-90% RH
	IP Rating Front / Rear	IP67 / IP67	IP67 / IP67
Warranty & Other	Warranty	3 Year Limited	3 Year Limited
	Regulatory	CE, FCC, ETL	CE, FCC, ETL
	Regulatory (Fire Protection)	BS476 Part7 Class1 & EN13501-1 Class B	BS476 Part7 Class1 & EN13501-1 Class B
	Environmental	RoHS, REACH	RoHS, REACH
	Controller	CVCA / LCIN	CVCA / LCIN
	90 Degree Corner Cut	No	No

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

SPECIFICATIONS (CONTROLLER)

CVCA

Max Output Range	Loading Capacity	3,840 × 2,160 @ 60 Hz
	Output Resolution	8.2944 Million Pixels
Input	HDMI	HDMI 2.0
	HDCP	HDCP 2.2
	DP	DP 1.2 / HDCP 1.3
	DVI	No
	SD I / ST2110	No
	OPS	Yes
Output	HDMI	No
	DVI	No
	Fiber Optic (To LED Screen)	No
	Ethernet (To LED Screen)	Yes (16-channel)
Control	LAN	Yes
	USB	Yes
	RS-232C	Yes (LOOP)
	GenLock	No
Sensor	Ambient Light (External Sensor)	No / Yes (Must use together with MFN300B)
	Temperature (Embedded Sensor)	Yes
Video Processing	Brightness Adjustment	Yes
	Chroma Adjustment	Yes
	Improved Grayscale at Low Brightness	Yes
	Scaling	Yes
	HDR	HDR10 Pro
	EDID Custom	No
Application	CMS	SuperSign CMS
	webOS API	Yes
	LG ConnectedCare ¹	Yes
	Configuration SW	LED Assistant
Mechanical	Size (W × H × D)	17.5 × 2.5 × 12.1 in. / 443 × 63 × 307.5 mm
	Weight	10.8 lbs. / 4.9 kg

¹⁾ The availability can differ by region.

		LCIN006	LCIN007	LCIN008	LCIN009	LCIN010
Max Output Range	Loading Capacity	1,920 × 1,200 @ 60 Hz	1,920 × 1,200 @ 60 Hz	4,096 × 2,160 @ 60 Hz	1,920 × 1,200 @ 60 Hz	1,920 × 1,200 @ 60 Hz
	Max Output Range (Maximum Width/Height)	3,840 / 2,560 Pixels	3,840 / 2,560 Pixels	7,680 / 7,680 Pixels	3,840 / 2,560 Pixels	3,840 / 2,560 Pixels
	Output Resolution	2.304 Million Pixels	2.304 Million Pixels	8.8 Million Pixels	2.304 Million Pixels	2.304 Million Pixels
Input	HDMI	HDMI 1.3	HDMI 1.3	HDMI 2.0	HDMI 1.4	No
	HDCP	HDCP 1.4	HDCP 1.4	HDCP 1.4 / 2.2	HDCP 1.4	No
	DP	No	No	DP 1.2 / HDCP 1.3	No	No
	DVI	Yes	Yes	Yes (2-channel)	Yes	Yes
	SDI / ST2110	No	No	No	Yes (1-channel 3G-SDI)	No
Output	HDMI	No / Yes (LOOP)	No / Yes (LOOP)	No	Yes (LOOP)	No
	DVI	No / Yes (LOOP)	No / Yes (LOOP)	No	Yes (LOOP)	No / Yes (LOOP)
	Fiber Optic (To LED Screen)	No	No	Yes (4-channel)	Yes (2-channel)	No / Yes (Optional)
	Ethernet (To LED Screen)	Yes (4-channel)	Yes (4-channel)	Yes (16-channel)	Yes (6-channel)	Yes (4-channel)
Control	LAN	No	No	Yes	Yes	Yes
	USB	Yes	Yes	Yes (LOOP)	Yes	Yes
	RS-232C	No / Yes (LOOP)	No / Yes (LOOP)	No	No	Yes
	GenLock	No	No	Yes	Yes	No
Sensor	Ambient Light (External Sensor)	Yes	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)
	Temperature (External Sensor)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)	No / Yes (Must use together with MFN300B)
Video Processing	Brightness Adjustment	Yes	Yes	Yes	Yes	Yes
	Chroma Adjustment	Yes	Yes	Yes	Yes	Yes
	Improved Grayscale at Low Brightness	No	No	Yes	Yes	No
	HDR	No	No	HDR10 / HLG	No	No
	EDID Custom	Yes	Yes	Yes	Yes	Yes
Application	Configuration SW	NovalCT	NovalCT	NovalCT	NovalCT	NovalCT
Mechanical	Size (W × H × D)	18.9 × 1.7 × 9.8 in. 482 × 44.4 × 250 mm	19 × 2.2 × 10.2 in. 483 × 55.3 × 258.1 mm	19 × 3.8 × 14.7 in. 482.6 × 96 × 372 mm	19 × 1.9 × 14 in. 482.6 × 50.1 × 356 mm	16.8 × 1.7 × 9.8 in. 428 × 44.4 × 250 mm
	Weight	6.4 / 7.9 lbs. / 2.9 / 3.6 kg	6.4 / 7.9 lbs. / 2.9 / 3.6 kg	10.1 lbs. / 4.6 kg	10.1 lbs. / 4.6 kg	6.4 / 7.9 lbs. / 2.9 / 3.6 kg

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Life's Good.

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