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ACD-AU215-2842

PRODUCT DATA SHEET

04/07/2017

21.5" FULL HD LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

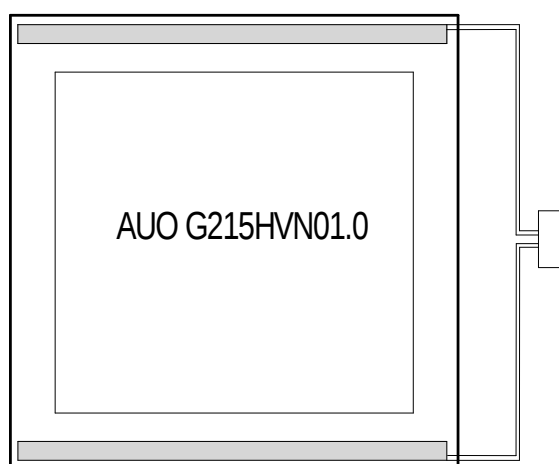
The ACD-AU215-2842 consists of the AUO G215HVN01.0 TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1000 cd/m² with 29.6 watts LED power

Display mounting locations identical to stock panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

21.5" TFT Active Matrix Color

476.64 (H) mm x 268.11 (V) mm viewable area

Full HD 1920 x 1080 pixels, 16.2M colors

5000:1 typical contrast ratio

Display Mode Normally Black

Physical Size 495.6(W)mm x 292.29(H)mm x 12.7(D)mm

For complete LCD specification (standard panel), refer to AUO G215HVN01.0 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Four wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E090350-2843 LED driver. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED drivers solutions if required.

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	0 to +60	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg ¹	Display storage temperature	-20 to +60	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	52.5	mA

* Maximum Ratings are those values beyond which damage to the driver may occur

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 43.75mA per bank, LED rail ACR-0864-2834, 4 banks per rail, 2 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

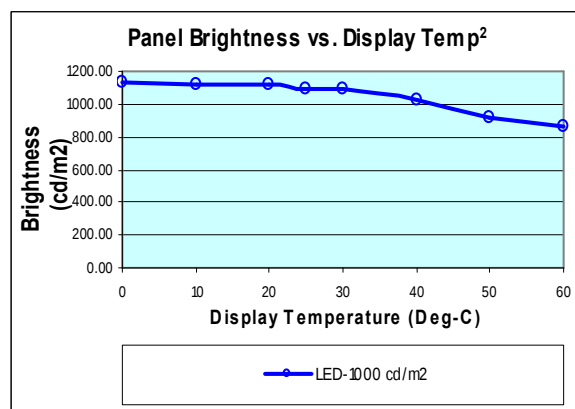
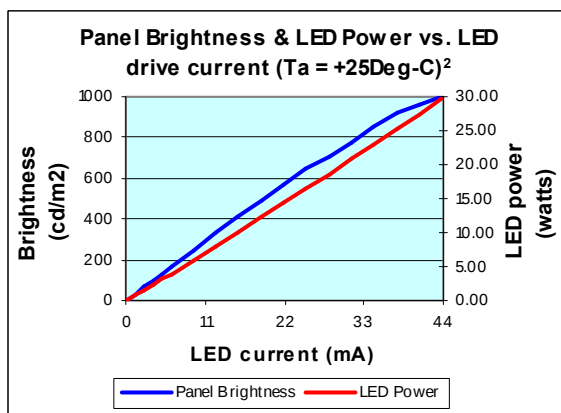
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.269		-
Y	White Y coordinate			0.303		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 43.75mA per bank, 4 banks per rail, 2 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		76.0	84.5	93.0	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)