

ACD-2914A

PRODUCT DATA SHEET

07/09/2018

12.1" WXGA LED BACKLIT TFT DISPLAY

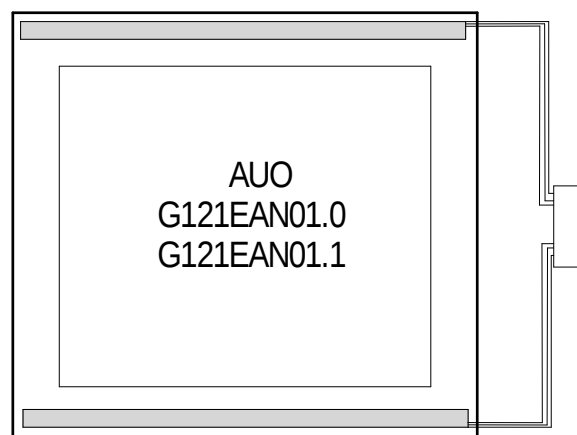
GENERAL DESCRIPTION

The ACD-2914A consists of the AUO G121EAN01.0/ G121EAN01.1 12.1" TFT displays modified with a high performance LED backlight

Customer Consigned Panel

Performance at given brightness levels

1100 cd/m² with 21.1 watts LED power



LCD PANEL HIGHLIGHTS

12.1" TFT Active Matrix Color

261.12 (H)mm x 163.2 (V)mm viewable area

WXGA 1280 x 800 pixels, 16.7M/262K colors

1000:1 typical contrast ratio

Display Mode Normally Black

Surface Treatment: Hardness 3H, AG

For complete LCD specification (standard panel), refer to the AUO G121EAN01.0/G121EAN01.1 datasheet

LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail

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

Projected lifetime > 75,000 hours

5000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use ACI ID5 LED Driver ACI-E090315-2912

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +85	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to + 95	Deg-C
Tstg ¹	Display storage temperature	-30 to +85	Deg-C
Ifwd	LED forward current	95	mA

*Maximum Ratings are those values beyond which damage may occur

1 Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 78.75mA per bank, 2 banks per rail, 2 rails per display, LED rails: ACR-0672-2906 Ta = +25Deg-C, moving air (36.0 CFM) min 2hr soak

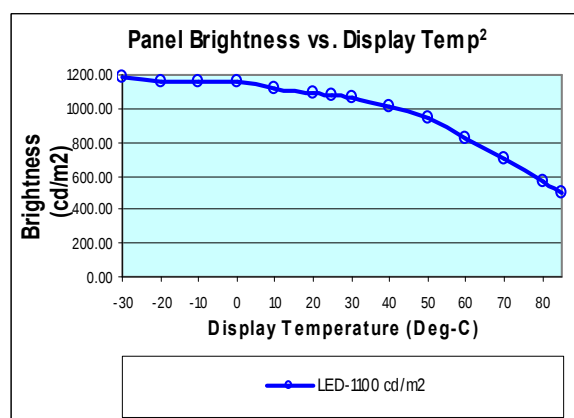
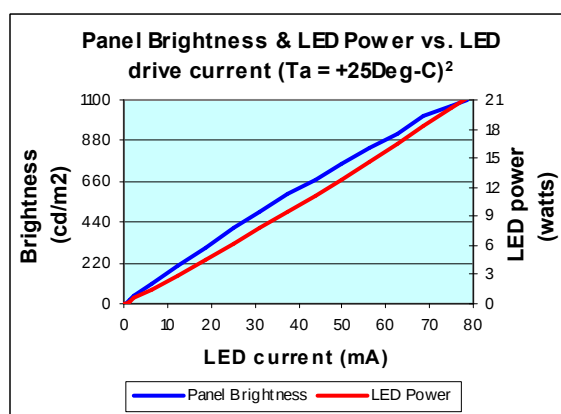
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness		990	1100	1210	cd/m ²
u'd	White X coordinate			0.205		-
v'd	White Y coordinate			0.464		-
Rd	White radius error				0.04	-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 78.75mA per bank, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		61	67	73	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)