

22.0" WSXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2819 consists of the AUO G220SW01 V0 WSXGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel

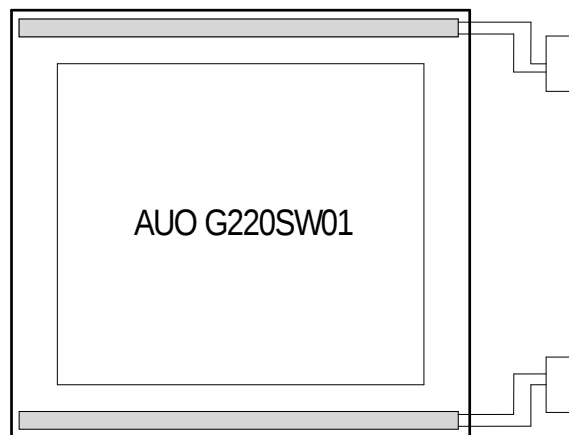
Performance at given brightness levels

1000 cd/m² with 48.3 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

12/14/2016



LCD PANEL HIGHLIGHTS

22.0" TFT Active Matrix Color

473.76 (H) mm x 296.1 (V) mm viewable area

WSXGA 1680x3(RGB) x 1050 pixels

16.7M colors (6-bits + HiFRC)

1000:1 typical contrast ratio

72% color gamut (NTSC color space)

Display Mode Normally Black

For complete LCD specification (standard panel), refer to AUO datasheet G220SW01 V0

LED BACKLIGHT FEATURES

White LED edge-light rail

Two 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 2 ACI-E120230-2047 LED drivers. Do not set the drivers 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 driver solutions if required.

MAXIMUM RATINGS *

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Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-20 to +60	Deg-C
Tstg ¹	Display storage temperature	-20 to +70	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	69	mA

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

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 57.5mA per bank, LED rail ACR-1054-2072, 4 banks per rail, 2 rails per display, Ta = +25Deg-C, moving air (36.0CFM), min 2hr soak

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.308		-
Y	White Y coordinate			0.362		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 57.5mA per bank, 4 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		94	105	1169	Vdc



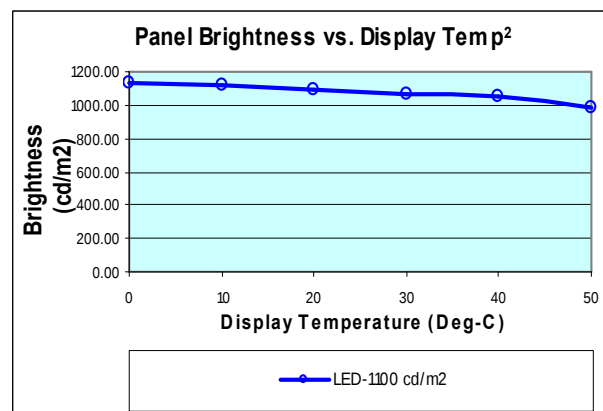
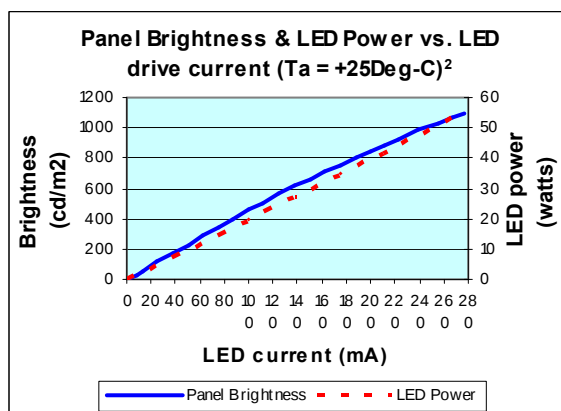
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ACD-2819

PRODUCT DATA SHEET

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TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)