



397 Route 281
Tully, New York 13159
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

ACD-AU190-2045

PRODUCT DATA SHEET

07/26/13

19.0" SXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

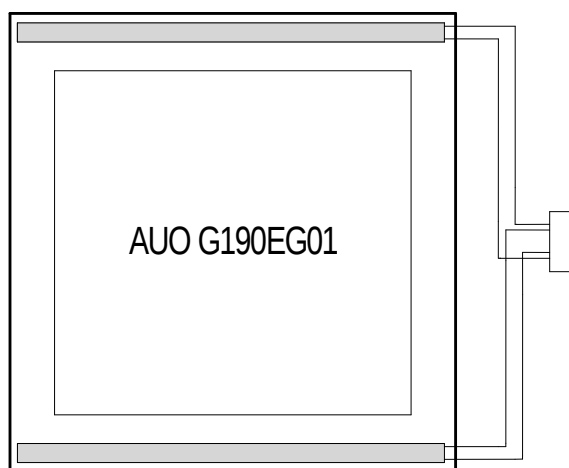
The ACD-AU190-2045 consists of the AUO G190EG01 V0 SXGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 1.7 to 1

Performance at given brightness levels

1000 cd/m² with 21.8 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

19.0" TFT Active Matrix Color

376.32 (H) mm x 301.056 (V) mm viewable area

SXGA 1280 x 1024 pixels, 16.2M colors

1000:1 typical contrast ratio

For complete LCD specification (standard panel), refer to AUO G190EG01 V0 data sheet.

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 ACI-E120230-2047 LED drivers.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	46.0	mA

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 38.3mA per bank, LED rail ACR-0953-2046, 3 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.312		-
Y	White Y coordinate			0.372		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 38.3mA per bank, 3 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		85	95	105	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

