



**397 Route 281  
Tully, New York 13159-1175  
Phone: 315 696-6676  
Fax: 315 696 9923  
Email: [sales@acipower.com](mailto:sales@acipower.com)  
[www.acipower.com](http://www.acipower.com)**

# ACD-2283

PRODUCT DATA SHEET – PAGE 1 OF 2

## 17.0" SXGA LED BACKLIT TFT DISPLAY

*1000:1 dimming/Cool operation*

### GENERAL DESCRIPTION

The ACD-2283 consists of the AUO G170EG01 V1 SXGA TFT display modified with a high performance LED backlight.

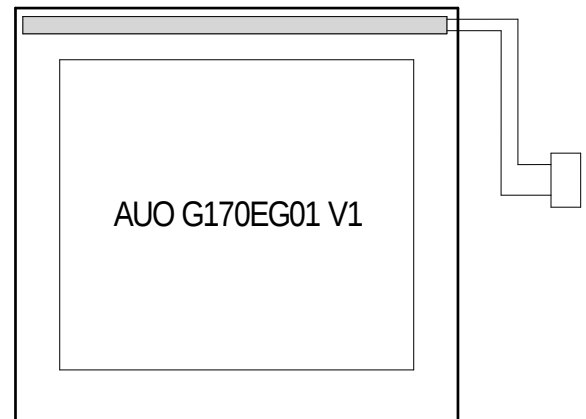
Customer Consigned panel

#### Performance at given brightness levels

700 cd/m<sup>2</sup> with 20.1 watts LED power

Display outline identical to standard LED equipped panel

08/14/2014



### LCD PANEL HIGHLIGHTS

17.0" TFT Active Matrix Color

337.920 (H) mm x 270.336 (V) mm viewable area

SXGA 1280(x3) x 1024 pixels

16.7M colors (RGB 6-bits + Hi-FRC data)

1000:1 typical contrast ratio

Display Mode: Normally White

*For complete LCD specification (standard panel), refer to AUO datasheet G170EG01 V1*

### LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver<sup>1</sup>

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LED's operating normally if one should ever fail

1000:1 or better dimming ratio, guaranteed<sup>1</sup>

<sup>1</sup> For best power transfer and control, use ACI-E100300-2545 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 driver solutions if required.

## MAXIMUM RATINGS

08/14/2014

| Symbol | Parameter                                                    | Value      | Unit  |
|--------|--------------------------------------------------------------|------------|-------|
| Top    | 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 +85 | Deg-C |
| Tstg   | Display storage temperature                                  | -30 to +85 | Deg-C |
| Ifwd   | Maximum LED edge-light forward current (DC)                  | 90         | mA    |

## PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 75mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0684-2456), Ta = +25Deg-C, LCD un-powered

| Symbol | Parameter          | Test Conditions | Min | Typ   | Max | Unit              |
|--------|--------------------|-----------------|-----|-------|-----|-------------------|
| Bp     | Panel Brightness   |                 | 630 | 700   | 770 | cd/m <sup>2</sup> |
| X      | White X coordinate |                 |     | 0.259 |     | -                 |
| Y      | White Y coordinate |                 |     | 0.285 |     | -                 |

## LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 75mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0684-2456), Top = +25Deg-C

| Symbol | Parameter                     | Test Conditions | Min | Typ | Max | Unit |
|--------|-------------------------------|-----------------|-----|-----|-----|------|
| Vfwd   | LED rail forward voltage drop |                 | 60  | 67  | 74  | Vdc  |

## TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

