

LED Displays VS. LCD Displays

Overview

The type of onboard current display built into your Intelligent Cabinet Power Distribution Unit (CDU) isn't typically a top priority when choosing the right CDU for your cabinet, however, there are a few important specifications that should be considered when evaluating various makes and models of CDUs. Below is a comparison chart that shows you the difference between LED displays and LCD displays. Due to the LED's resilience, longevity, brightness and other factors, Server Technology believes that the pros of the LED display vastly outweigh the specs of the LCD display.



	LED Display	LCD Display
Operating Temperature	-40 to 85C	Commercial Grade Typically 0 to 50C Industrial Grade Typically -20 to 70C
Storage Temperature	-40 to 100C	Commercial Grade Typically -10 to 50C Industrial Grade Typically -30 to 85C
Longevity	100000 hours typical	50000 hours on crystal. Backlight life can be less dependant on technology used.
Brightness	Viewing distance up to 23' (7m)	Requires backlight to be continuously on. With backlight typically 10' (3m)
Viewing angle	60 degrees	Typical LCD is 45 degrees. High contrast models can get to 60 degree viewing angle
Other considerations	Server Technology has specified high intensity, low current draw LEDs for CDU applications.	LCDs can distort due to pressure on the display and thus require an additional protective window. Backlight lifespan can vary. 2500 Hours with Electroluminescence LED technology must be used to increase backlight life

Summary

Current monitoring is critical to preventing overloaded circuits in data centers, simple load balancing, and it also helps data center personnel utilize the available power. All Server Technology CDUs with onboard current monitoring use LED digital displays on the CDU enclosure to report the input current (in Amps) of each phase or branch circuit. Over 25 years of data center power distribution research has shown us that this method has the most benefits when it comes to displaying power readings locally.



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