Current Draw of the LDC-3926 16-Channel High Power Laser Diode Controller

TECH NOTE

This report details results for current draw testing on the LDC-3926 mainframe.

MEASUREMENT SETUP

An LDC-3926 mainframe was plugged into a Chroma Model 6430 Programmable AC Source. The Chroma is capable of supplying current at various line voltage and frequency levels, and measures current drawn by the instrument. The mainframe was fully loaded with either laser or TEC controller modules, and all modules were operated at 0 A, 3 A and 6 A output. Tests were run for Japanese, American, and European Union line voltage levels.

RESULTS

Figures 1 and 2 show the current draw for a mainframe fully loaded at Japanese line voltage levels. Figures 3 and 4 show the current draw at American line voltage levels. Figures 5 and 6 show current draw at European Union line voltage levels.

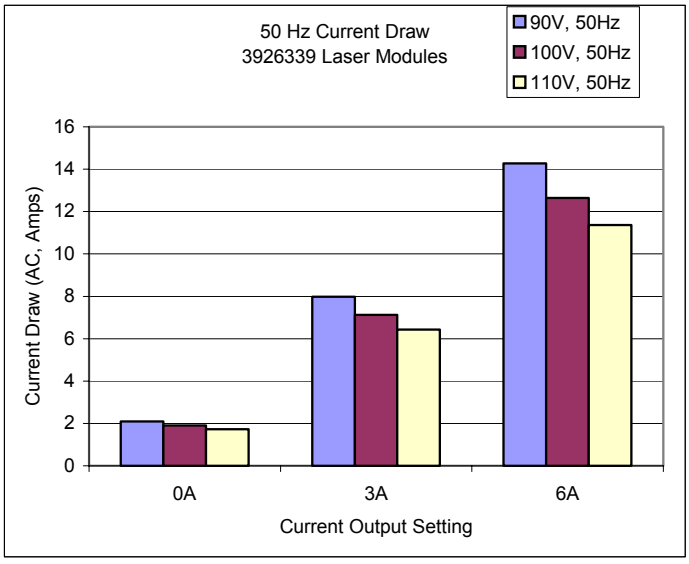

Figure 1 Current Draw at 50 Hz; Japanese Voltage 3926339 Laser Control Modules

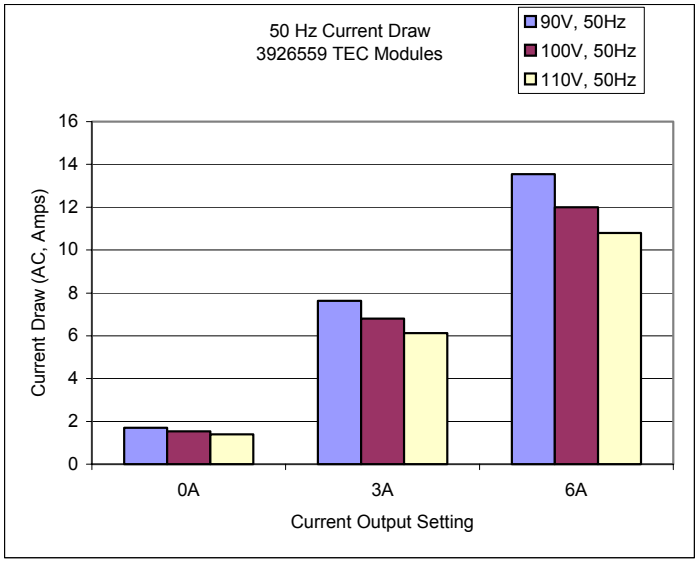

Figure 2 Current Draw at 50 Hz; Japanese Voltage 3926559 TEC Modules

continued...

TECH NOTE

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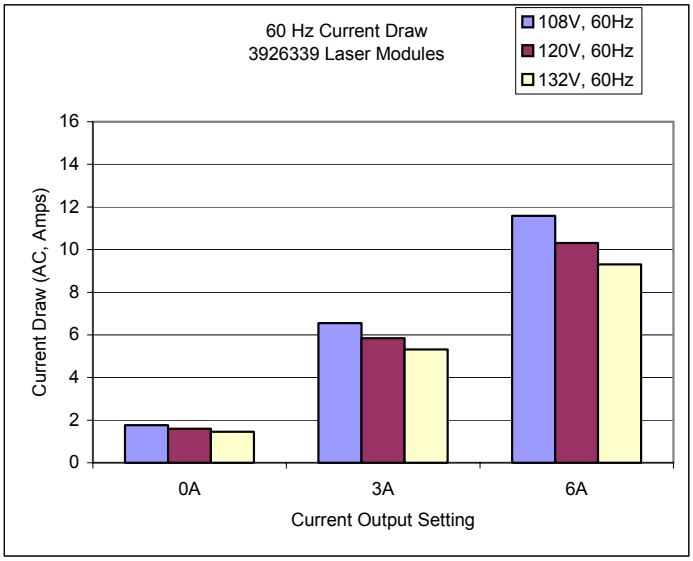

Figure 3 Current Draw at 60 Hz; American Voltage 3926339 Laser Control Modules

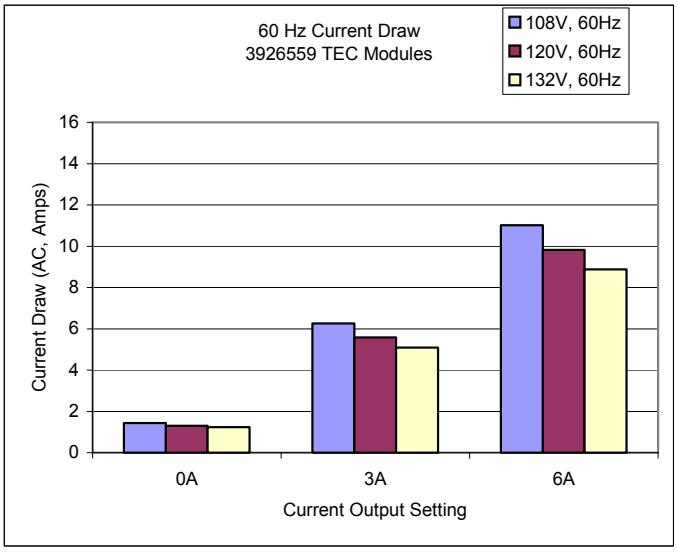

Figure 4 Current Draw at 60 Hz; American Voltage 3926559 TEC Modules

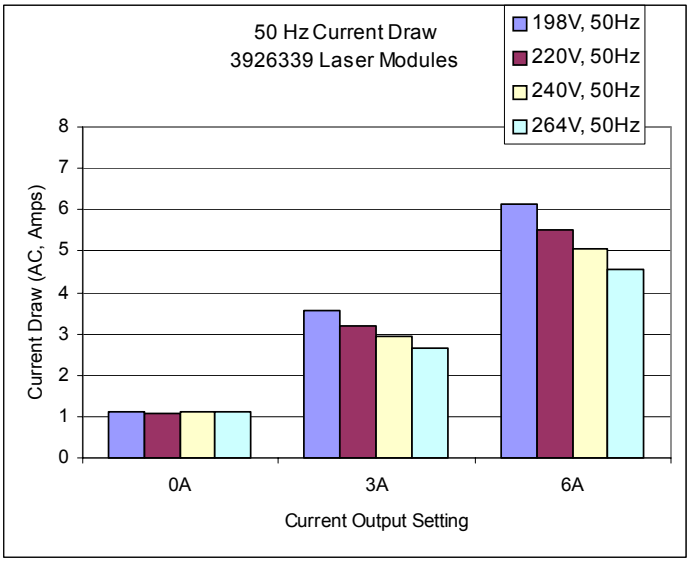

Figure 5 Current Draw at 50 Hz; European Union Voltages 3926339 Laser Modules

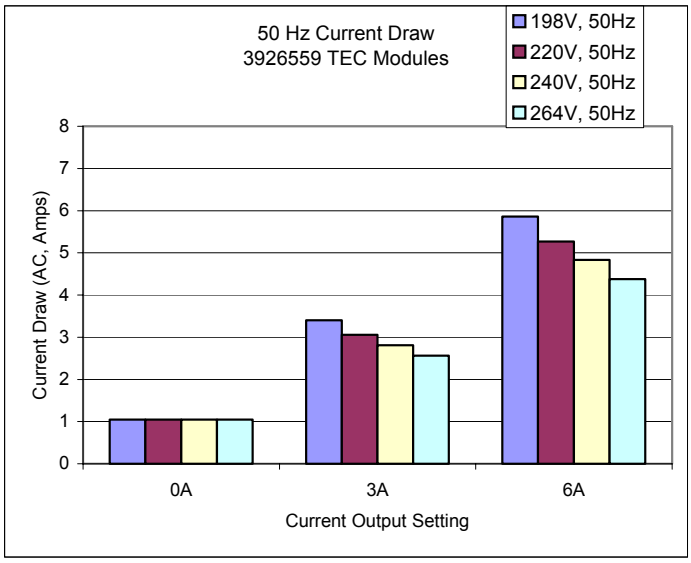

Figure 6 Current Draw at 50 Hz; European Union Voltages 3926559 TEC Modules