

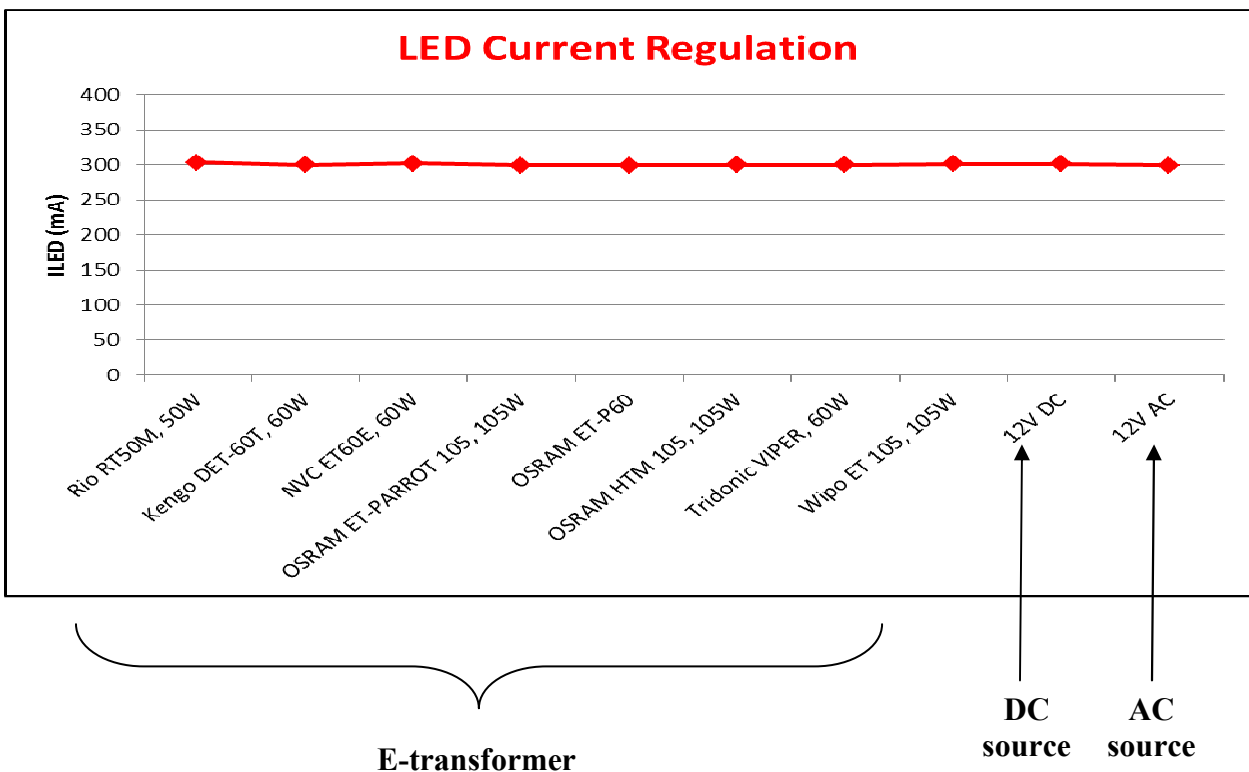
Specifications

- Output Power \approx 4W
- Input Voltage = 12VDC, or 12Vac / 50Hz 60Hz, or 12VAC E-transformer
- LED Forward Voltage \approx 10V
- LED Current \approx 300mA
- Efficiency $>$ 75% @ 12VDC
- Power Factor \geq 0.9
- Topology: SEPIC

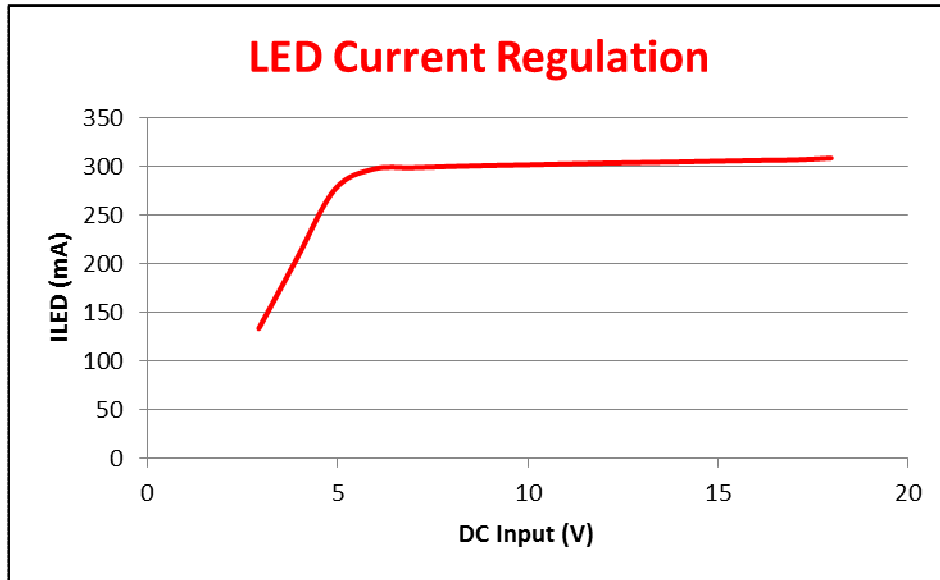
Test Conditions -1

- LED Forward Voltage \approx 10V
- LED Current \approx 300mA
- Ambient Temperature \approx 25°C

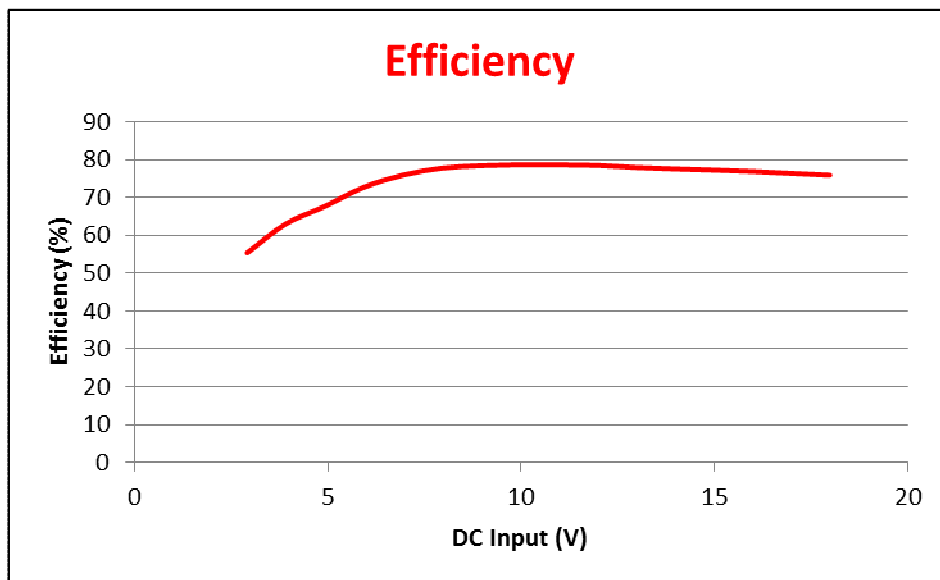
Electrical Performance for difference supply source – 10V (3LEDs)



Electrical Performance for DC Source – 10V (3LEDs)

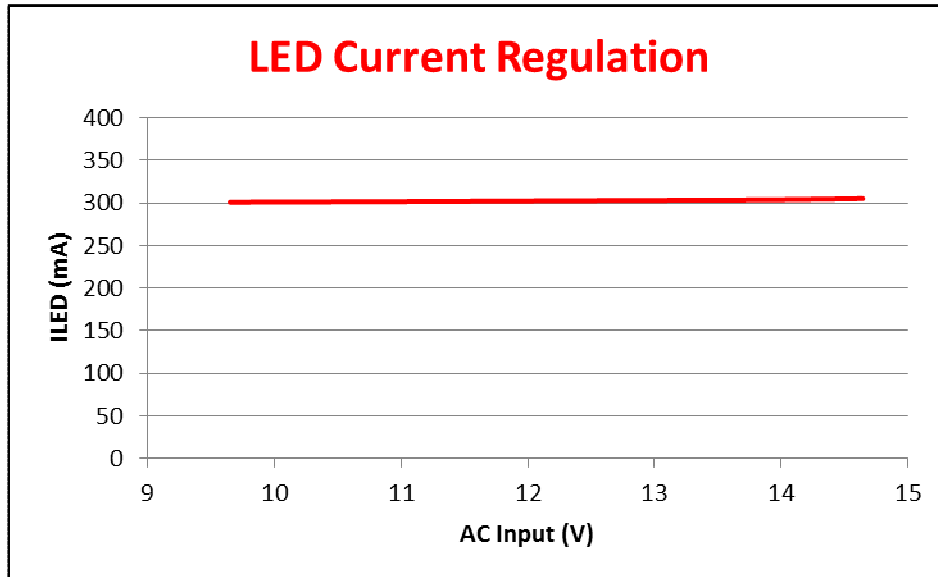


LED Current vs. Input Voltage from 3VDC to 18VDC

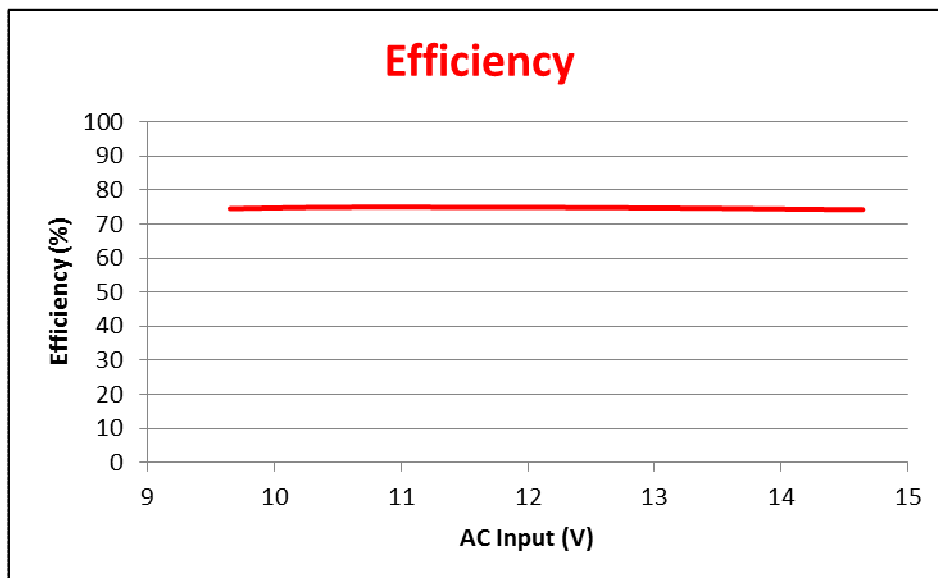


Efficiency vs. Input Voltage from 3VDC to 18VDC

Electrical Performance for AC / 50Hz source – 10V (3LEDs)



LED Current vs. Input Voltage from 9.5VAC to 14.5VAC

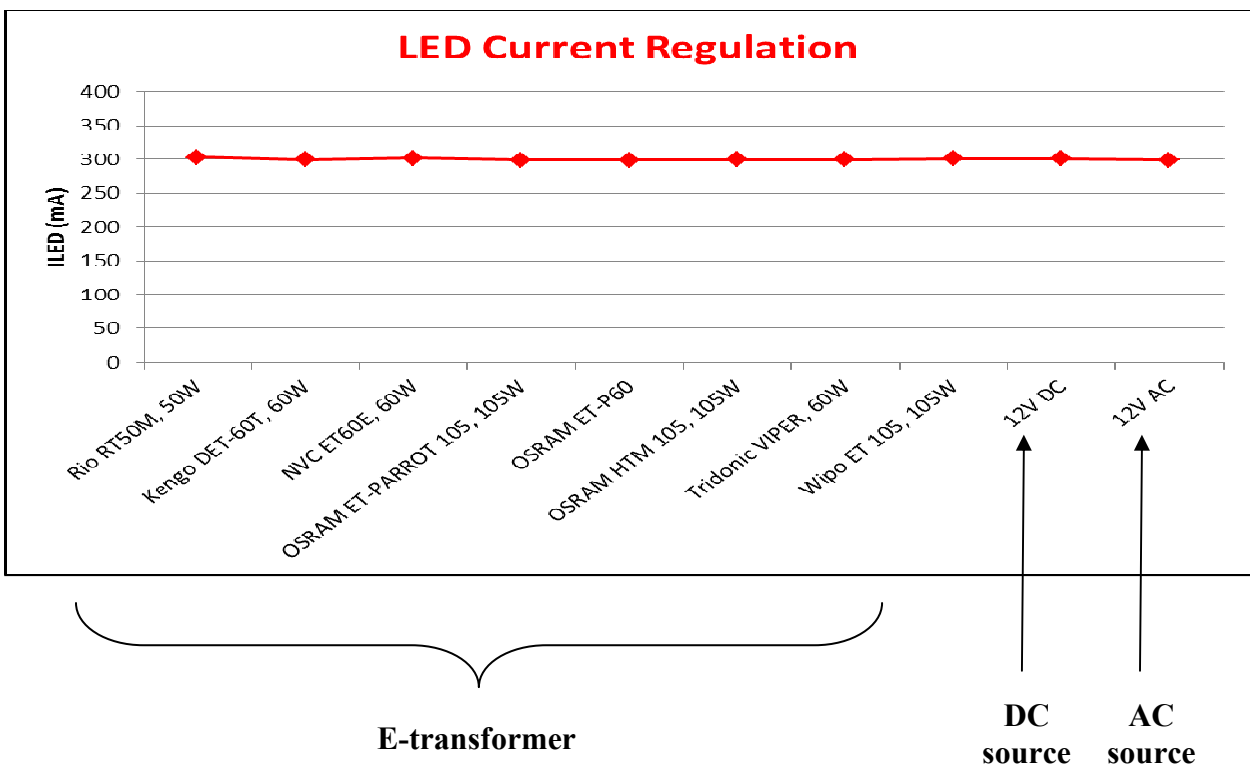


Efficiency vs. Input Voltage from 9.5VAC to 14.5VAC

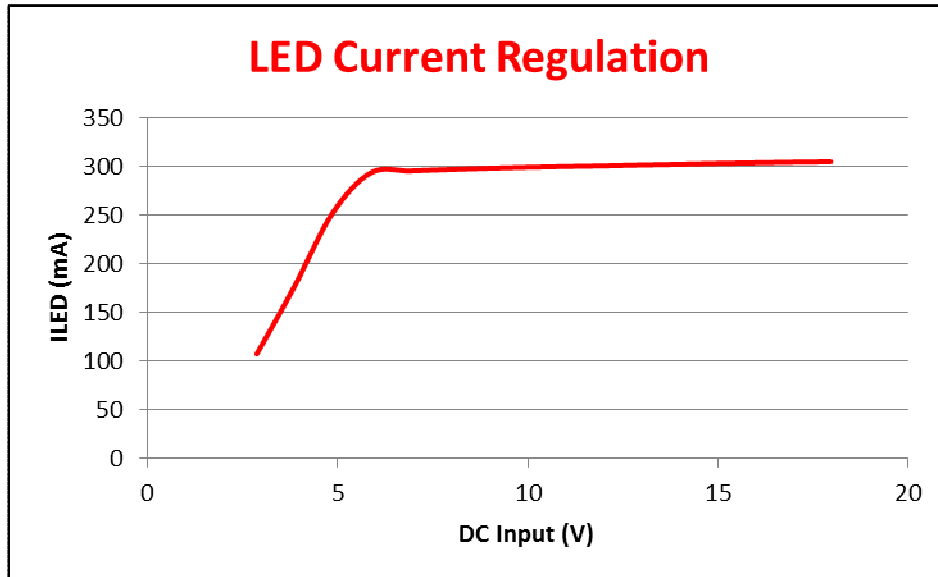
Test Conditions - 2

- LED Forward Voltage $\approx 13\text{V}$
- LED Current $\approx 300\text{mA}$
- Ambient Temperature $\approx 25^\circ\text{C}$

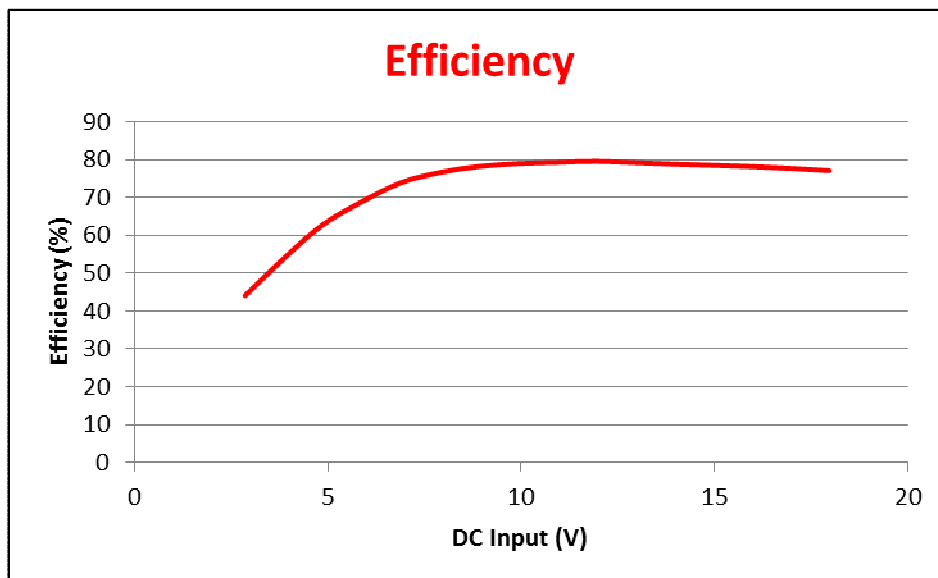
Electrical Performance for difference supply source – 13V (4LEDs)



Electrical Performance for DC Source - 13V (4LEDs)

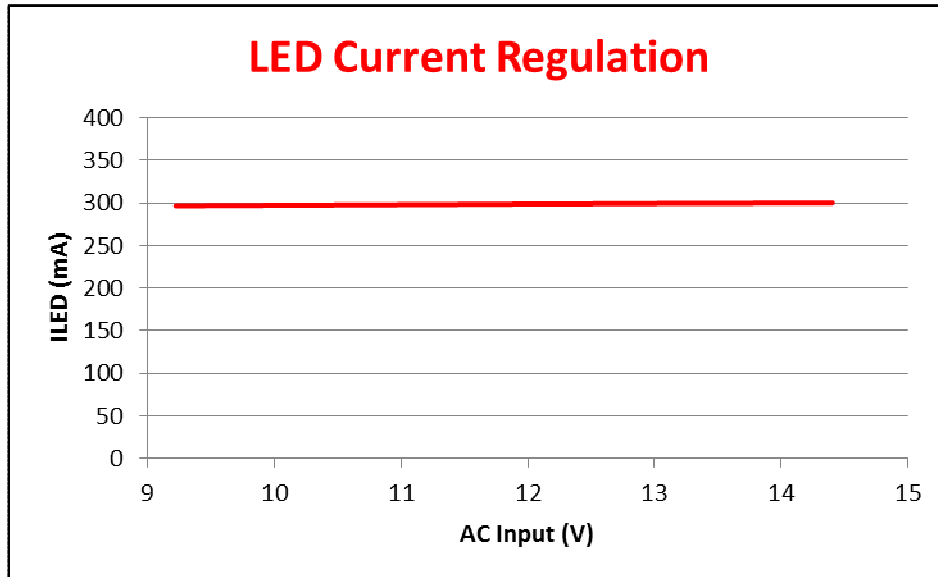


LED Current vs. Input Voltage from 3VDC to 18VDC

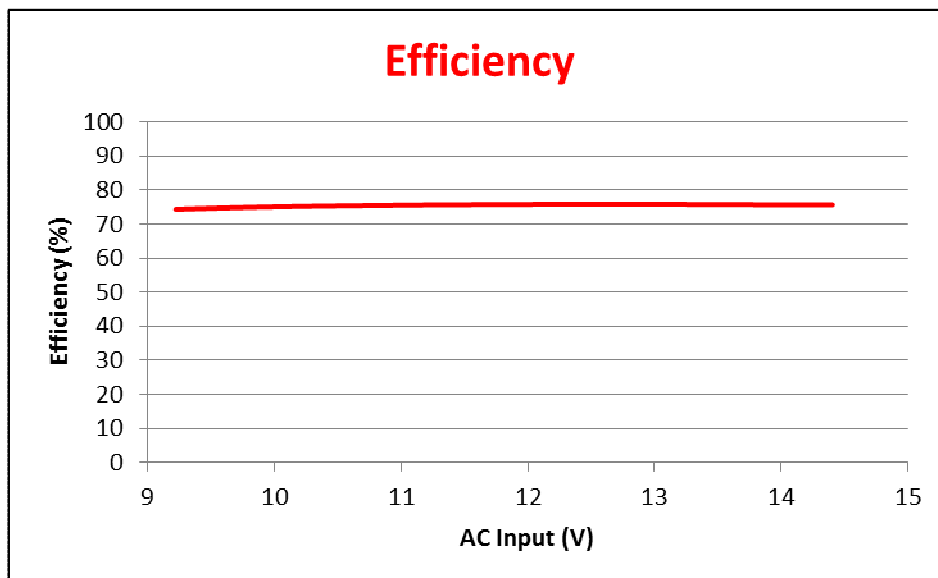


Efficiency vs. Input Voltage from 3VDC to 18VDC

Electrical Performance for AC / 50Hz source - 13V (4LEDs)

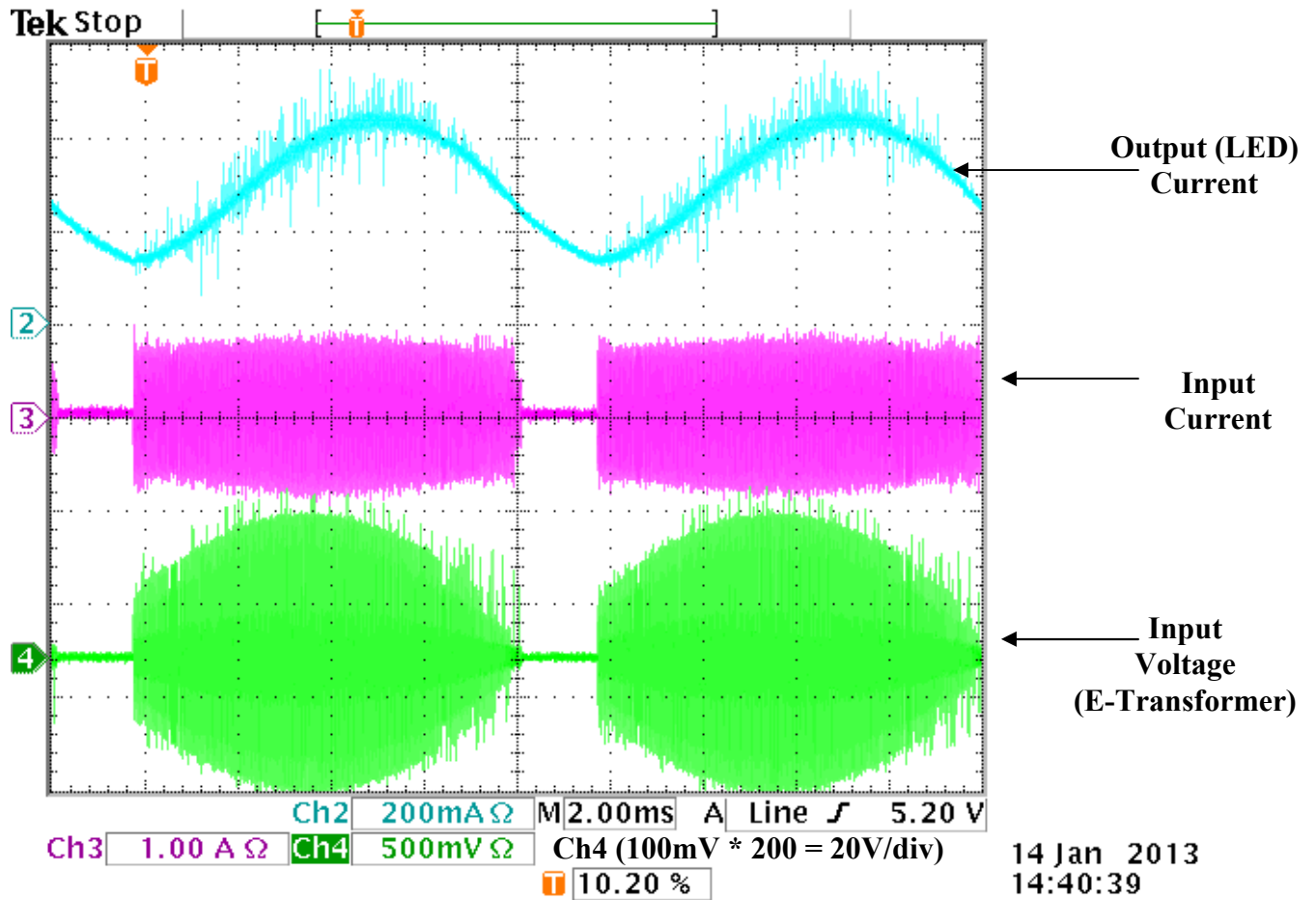


LED Current vs. Input Voltage from 9.5VAC to 14.5VAC



Efficiency vs. Input Voltage from 9.5VAC to 14.5VAC

Waveform for E-Transformer Source operation - 13V (4LEDs)



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