

## Experimental Results

### Specifications

- Input Power  $\approx 15\text{W}$
- Output Power  $\approx 13\text{W}$
- Line Voltage = 198VAC~264VAC
- Line Frequency = 50Hz
- LED Forward Voltage = 28V to 34V
- LED Current  $\approx 400\text{mA}$
- Efficiency  $\approx 87\%$
- Power Factor  $\geq 0.9$
- Topology: Single-stage flyback

### Test Conditions

- Line Voltage = 220VAC/50Hz unless otherwise specified
- LED Forward Voltage  $\approx 32\text{V}$
- LED Current  $\approx 400\text{mA}$
- Ambient Temperature  $\approx 25^\circ\text{C}$

Electrical Performance

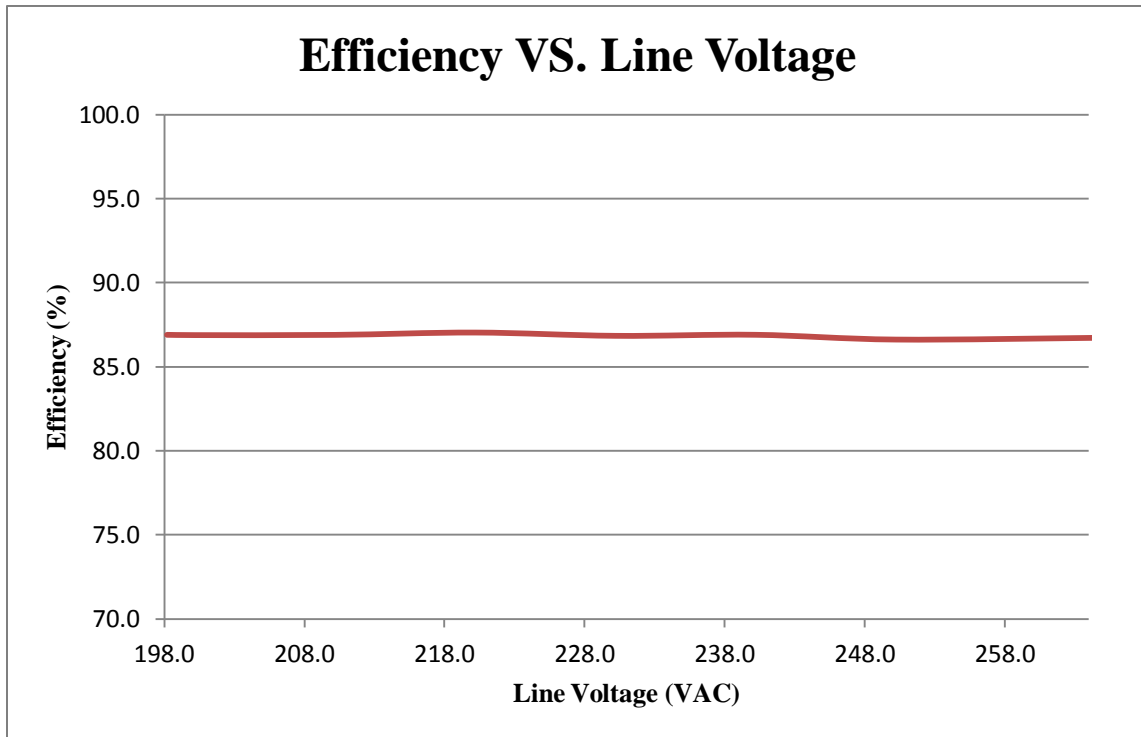


FIGURE 1. Efficiency vs. Line Voltage from 198VAC to 264VAC/50Hz

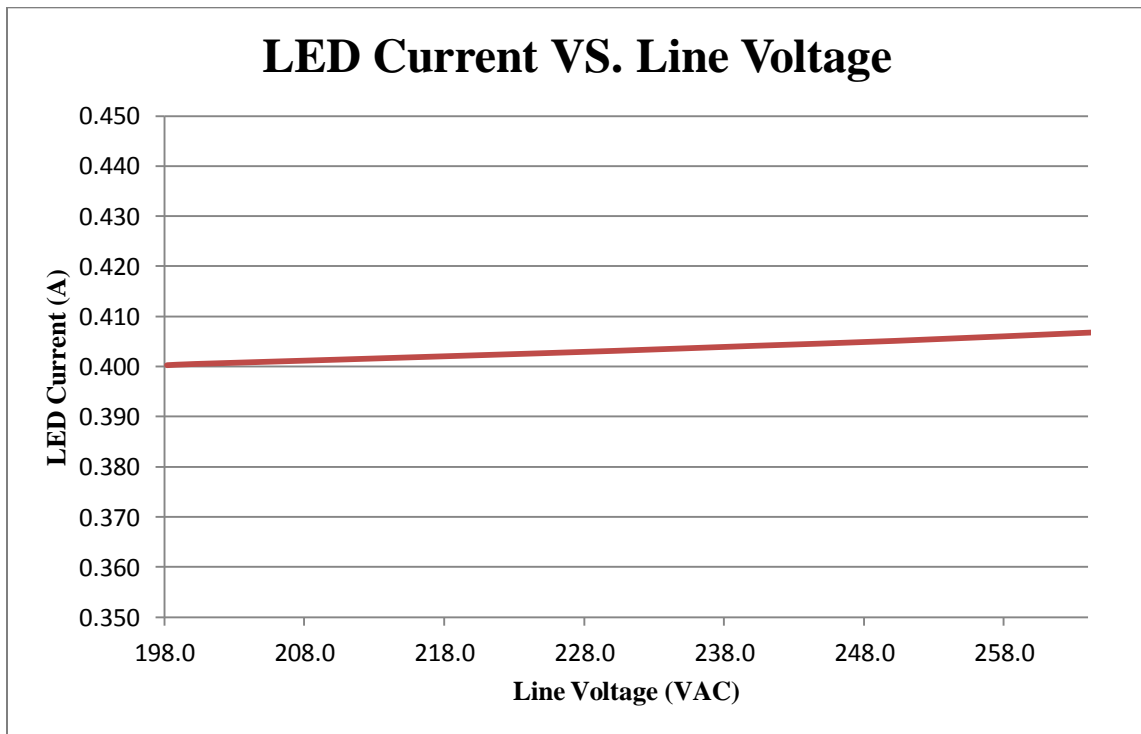
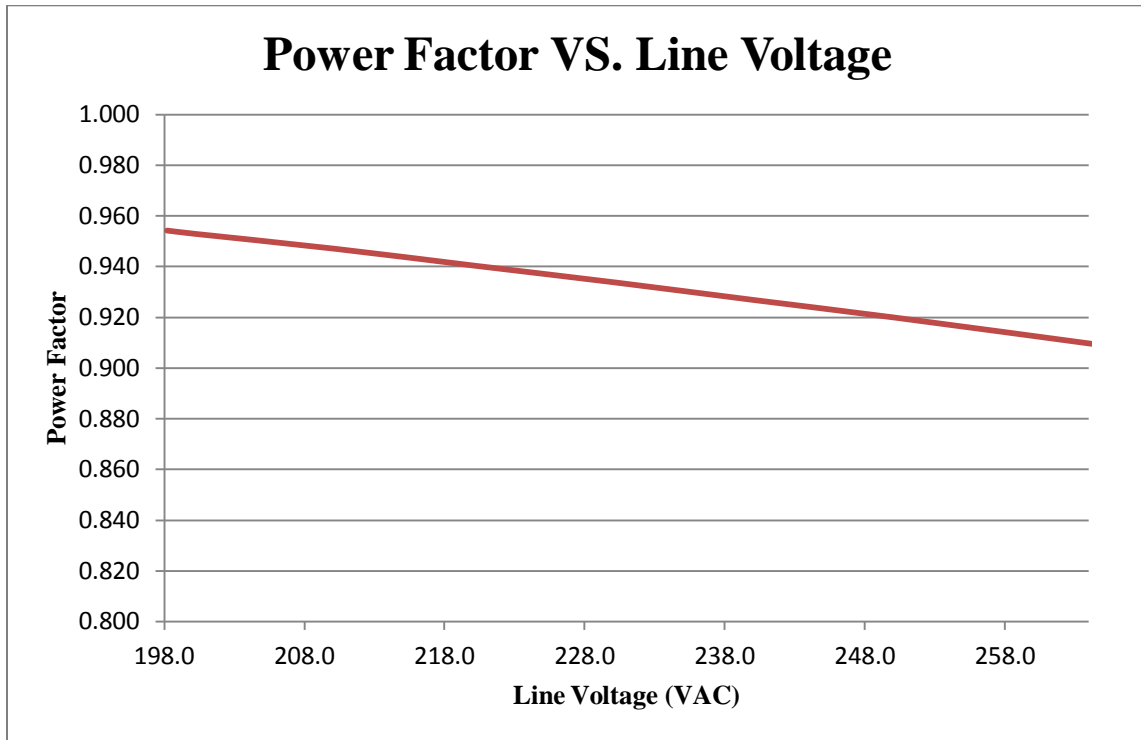


FIGURE 2. LED Current vs. Line Voltage from 198VAC to 264VAC/50Hz



**FIGURE 3. Power Factor vs. Line Voltage from 198VAC to 264VAC/50Hz**

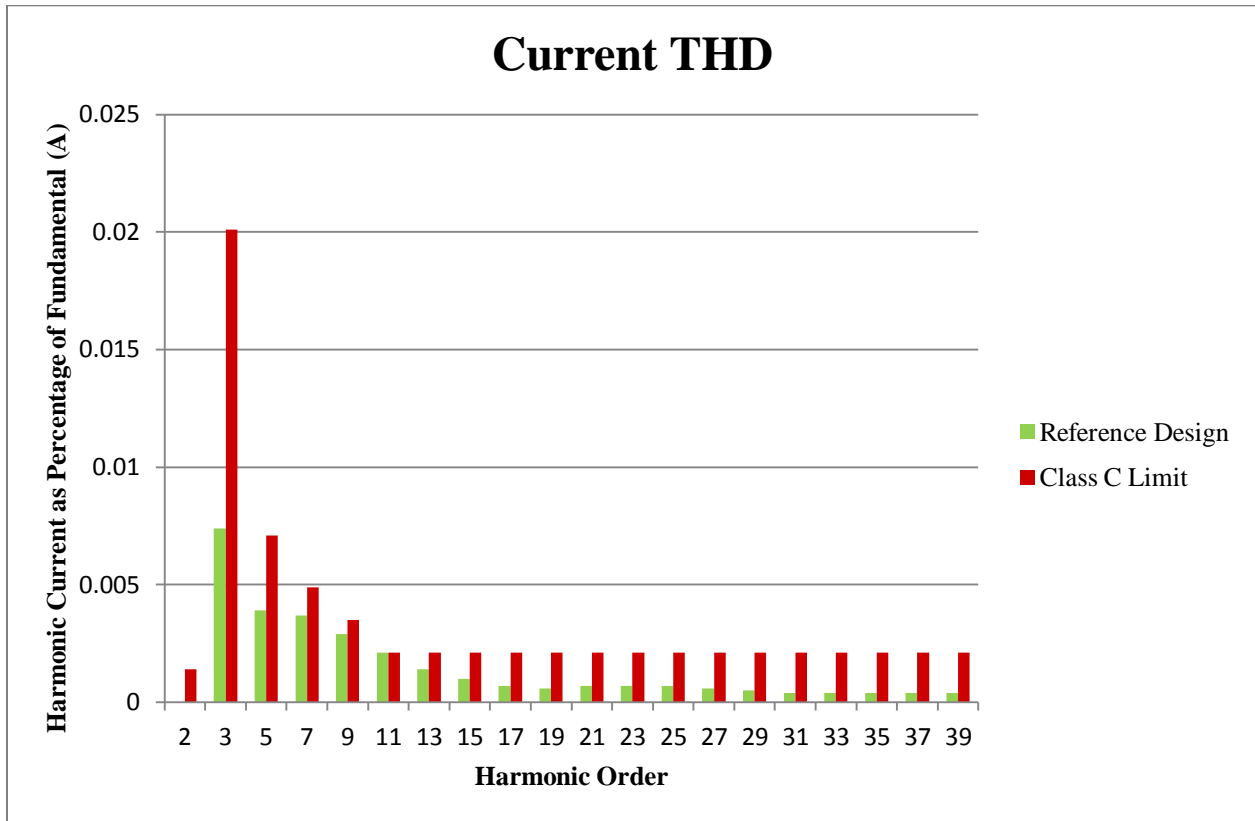


FIGURE 4. Current Harmonic Performance vs. EN/IEC61000-3-2 Class C Limits at 220VAC/50Hz

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