

# Experimental Results

## Specifications

- Input Power  $\approx$  21W
- Output Power  $\approx$  19W
- Line Voltage = 198VAC~264VAC
- Line Frequency = 50Hz
- LED Forward Voltage = 110V to 130V
- LED Current  $\approx$  160mA
- Efficiency  $\approx$  92%
- Power Factor  $\geq$  0.9
- Topology: Single-stage buck-boost
- Solution size: 203.5mm(L) x 18mm(W) x 11mm(H)

## Test Conditions

- Line Voltage = 220VAC/50Hz unless otherwise specified
- LED Forward Voltage  $\approx$  120V
- LED Current  $\approx$  160mA
- Ambient Temperature  $\approx$  25°C

## Electrical Performance

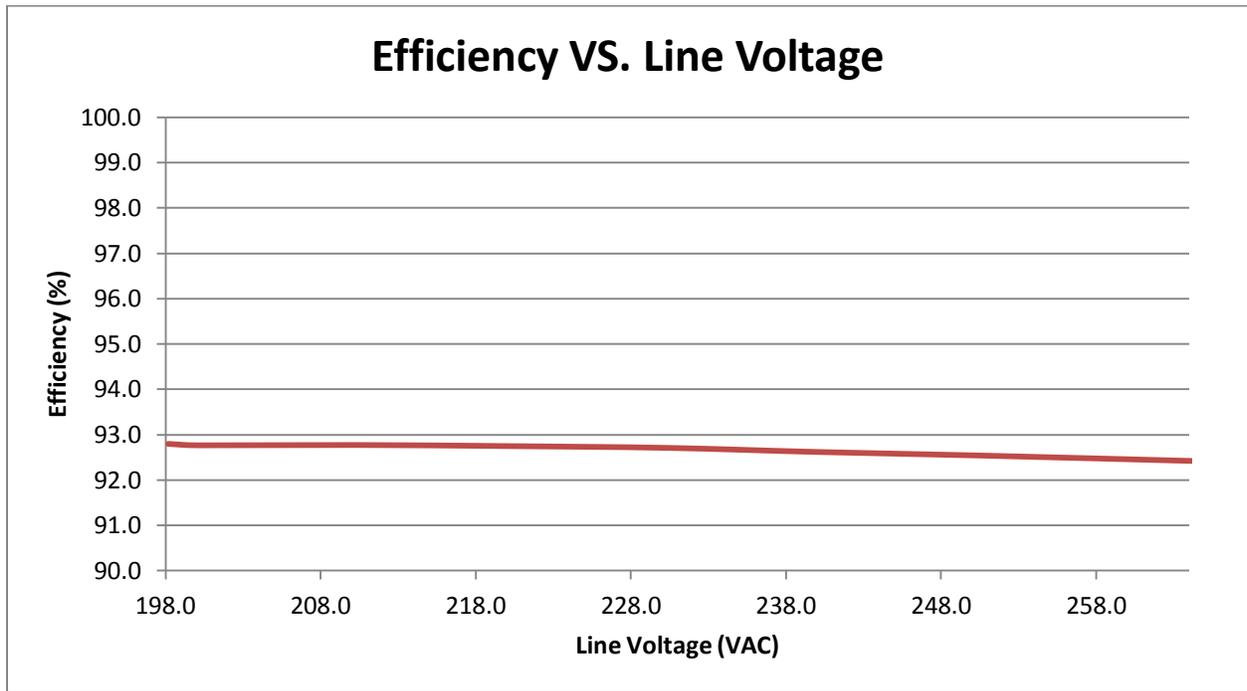


FIGURE 1. Efficiency vs. Line Voltage from 198VAC to 264VAC/50Hz

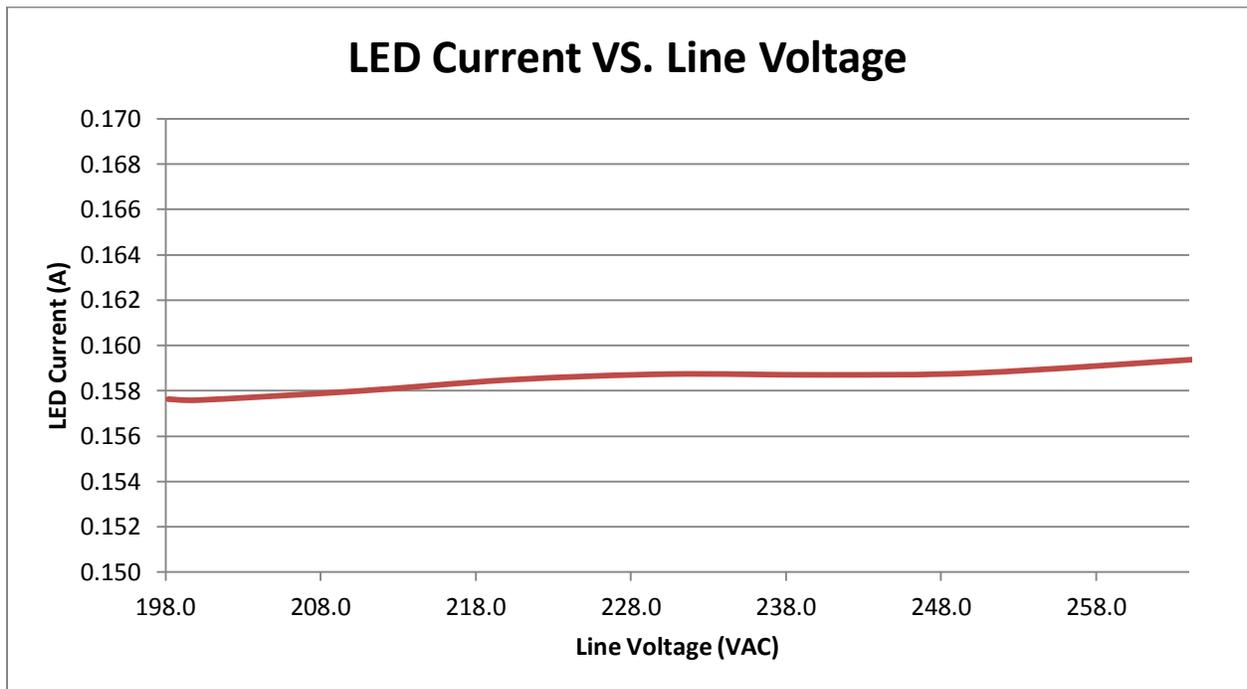


FIGURE 2. LED Current vs. Line Voltage from 198VAC to 264VAC/50Hz

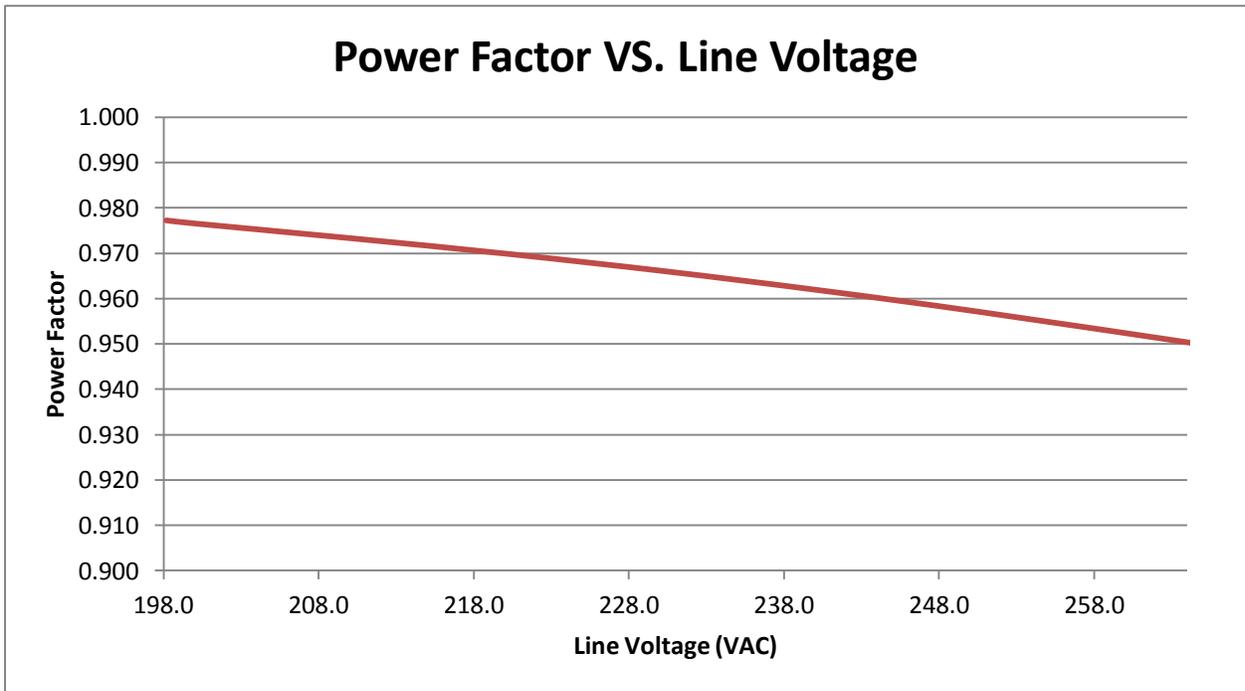


FIGURE 3. Power Factor vs. Line Voltage from 198VAC to 264VAC/50Hz

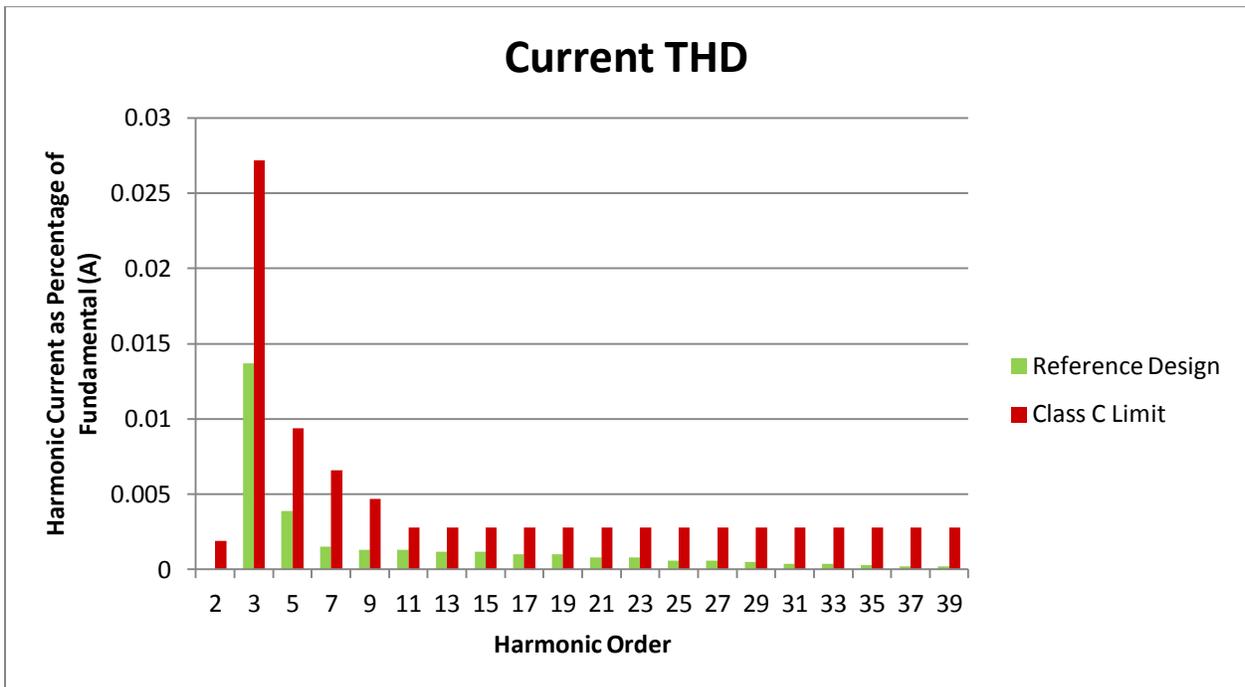


FIGURE 4. Current Harmonic Performance vs. EN/IEC61000-3-2 Class C Limits at 220VAC/50Hz

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