# PMP8010 RevA Test Results

TEXAS INSTRUMENTS

## Specifications

- Input Power ≈ 8W
- Output Power ≈ 7W
- Line Voltage = 198VAC~264VAC
- Line Frequency = 50Hz
- LED Forward Voltage = 20V
- LED Current ≈ 350mA
- Efficiency ≈ 84%
- Power Factor ≥ 0.9
- Topology: Flyback- Transition Mode
- Solution size: 56mm(L) x 18mm(W) x 19mm(H)

## Test Conditions

- Line Voltage = 220VAC/50Hz unless otherwise specified
- LED Forward Voltage ≈ 20V
- LED Current ≈ 350mA
- Ambient Temperature ≈ 25$^{o}$C

# PMP8010 RevA Test Results

TEXAS INSTRUMENTS

## Electrical Performance

| V$_{IN}$ (VAC) | I$_{IN}$ (A) | f$_{LINE}$ (Hz) | P$_{IN}$ (W) | PF | V$_{OUT}$ (V) | I$_{OUT}$ (A) | P$_{OUT}$ (W) | η$_{SYS}$ (%) |
|---|---|---|---|---|---|---|---|---|
| 198.4 | 0.042 | 50 | 7.93 | 0.948 | 19.62 | 0.343 | 6.73 | 84.9 |
| 200.4 | 0.042 | 50 | 7.94 | 0.946 | 19.62 | 0.344 | 6.74 | 84.9 |
| 210.4 | 0.040 | 50 | 7.98 | 0.938 | 19.62 | 0.345 | 6.77 | 84.8 |
| 220.4 | 0.039 | 50 | 8.03 | 0.930 | 19.62 | 0.346 | 6.79 | 84.6 |
| 230.4 | 0.038 | 50 | 8.08 | 0.921 | 19.62 | 0.348 | 6.82 | 84.5 |
| 240.4 | 0.037 | 50 | 8.14 | 0.912 | 19.62 | 0.349 | 6.85 | 84.1 |
| 250.4 | 0.036 | 50 | 8.20 | 0.902 | 19.62 | 0.351 | 6.89 | 84.0 |
| 264.5 | 0.035 | 50 | 8.28 | 0.888 | 19.63 | 0.352 | 6.92 | 83.5 |
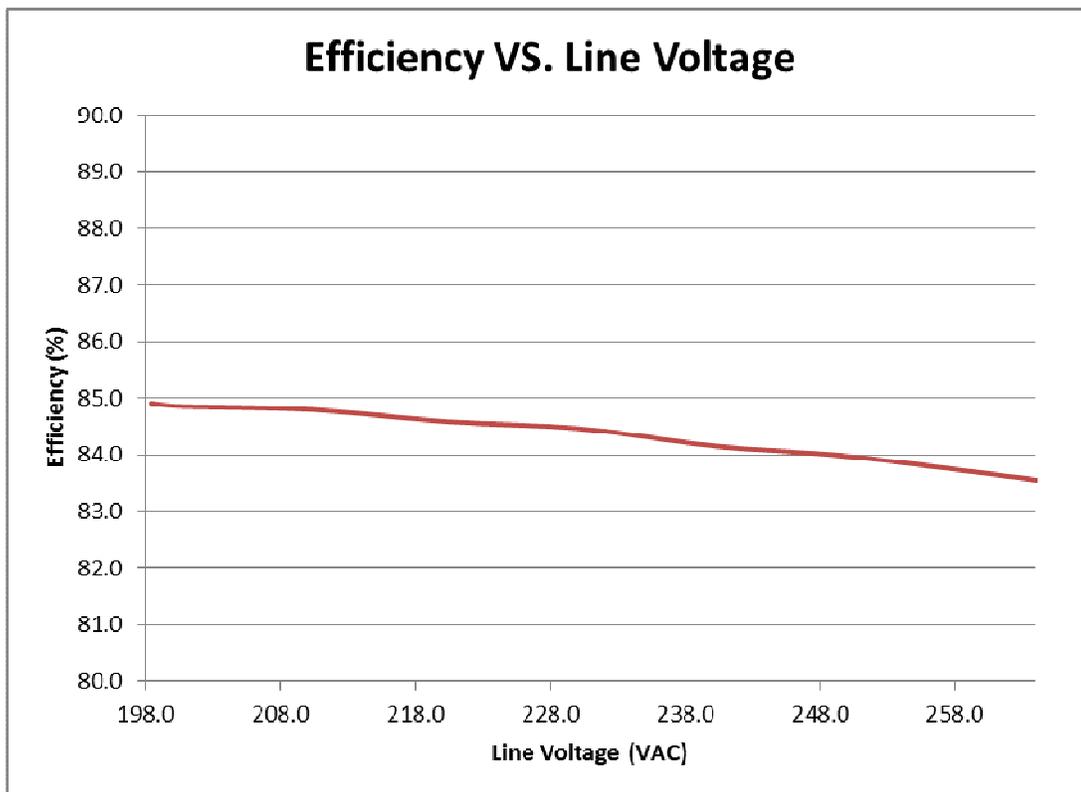


FIGURE 1. Efficiency vs. Line Voltage from 198VAC to 264VAC/50Hz
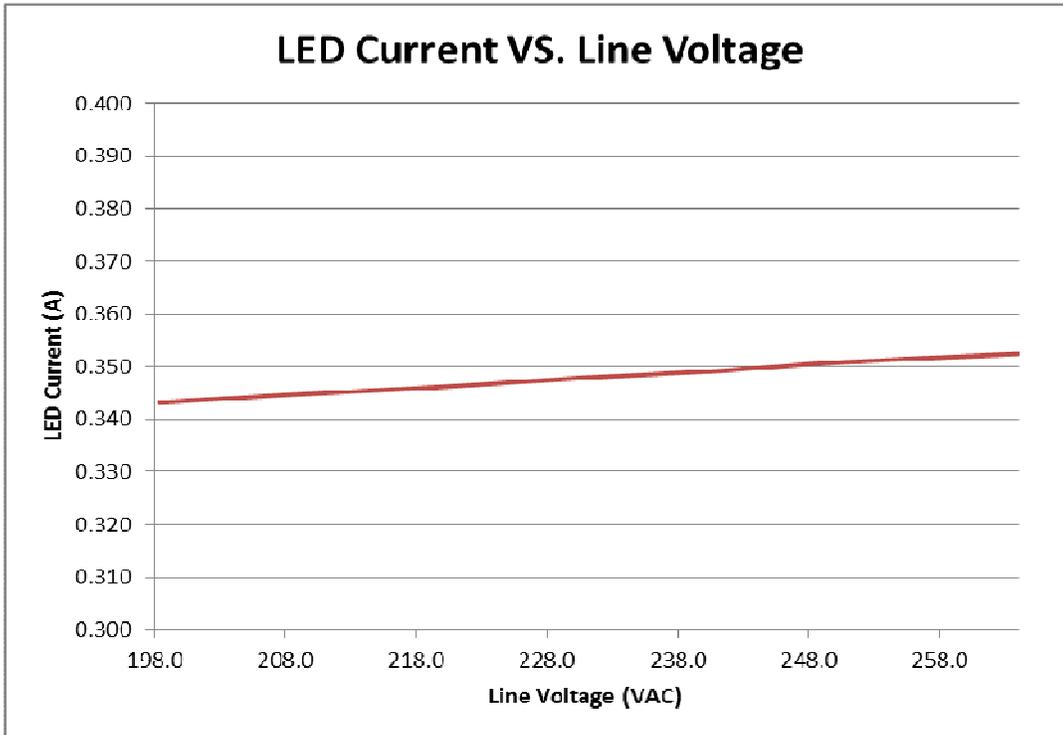
Power Management Solutions

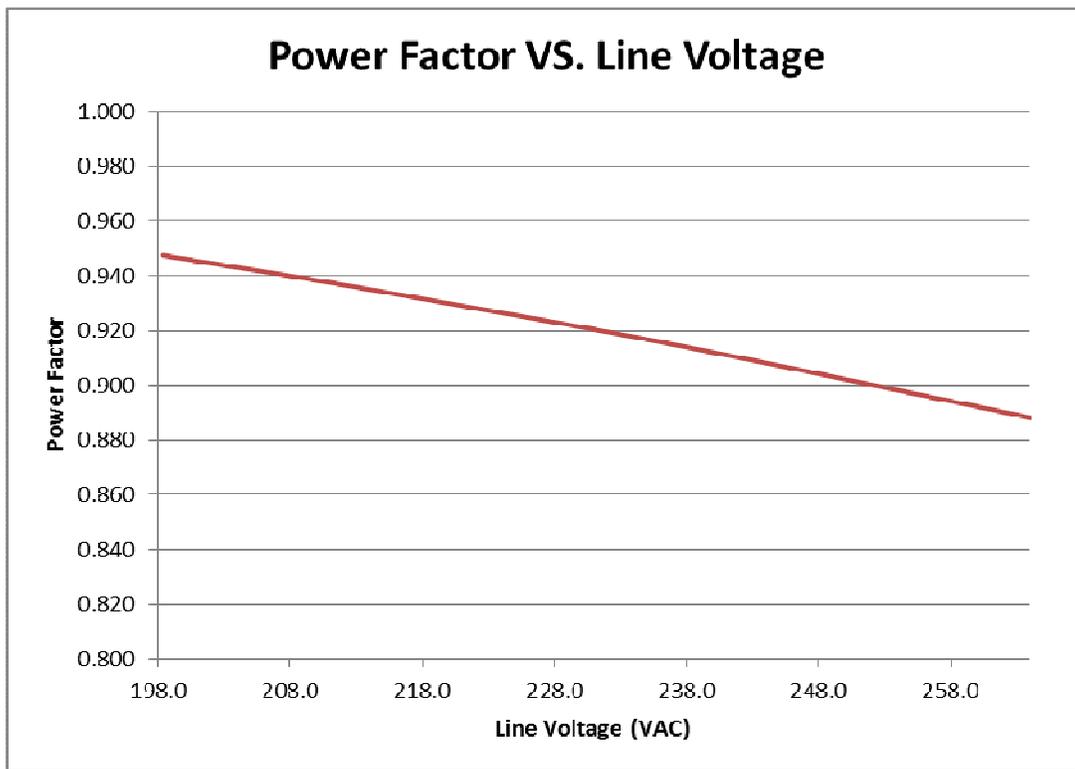**FIGURE 2. LED Current vs. Line Voltage from 198VAC to 264VAC/50Hz**



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

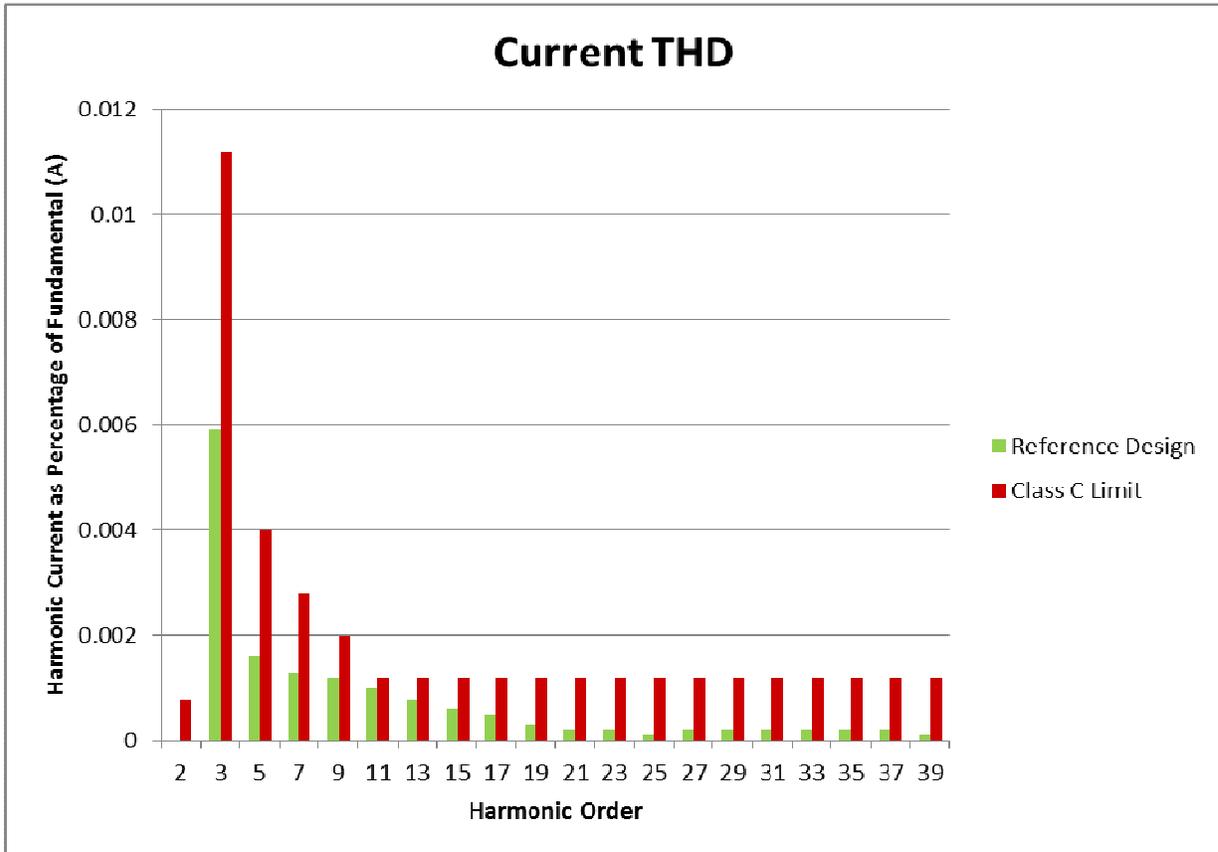**FIGURE 4. Current Harmonic Performance vs. EN/IEC61000-3-2 Class C Limits at 220VAC/50Hz**

# IMPORTANT NOTICE AND DISCLAIMER