PMP8013 Rev A Test Results

Specifications

- Input Power ≈ 12W
- Output Power ≈ 10W
- Line Voltage = 198 ~ 264Vac
- Line Frequency = 50Hz
- LED Forward Voltage = 36V
- LED Current ≈ 280mA
- Efficiency ≥ 81%
- Power Factor ≥ 0.9
- Topology: Fly-back
- Solution size: 57.6mm(L) x 27mm(W) x 16mm(H)

Remark:

All test results is measured at 25°C ambient temperature.

Electrical Performance

V_{PRESET} (V)	198	200	210	220	230	240	250	264
F_{PRESET} (Hz)	50	50	50	50	50	50	50	50
V_{IN} (V)	190.2	200.3	210.4	220.4	230.4	240.4	250.4	264.4
I_{IN} (A)	0.065	0.062	0.060	0.058	0.057	0.055	0.053	0.051
P_{IN} (W)	12.03	12.01	12.06	12.18	12.38	12.37	12.36	12.32
PF	0.968	0.962	0.956	0.950	0.945	0.938	0.930	0.918
V_{OUT} (V)	35.83	35.81	35.81	35.83	35.87	35.86	35.84	35.81
I_{OUT} (A)	0.274	0.273	0.275	0.277	0.282	0.282	0.281	0.280
P_{OUT} (W)	9.80	9.79	9.84	9.94	10.10	10.10	10.07	10.04
η_{SYS} (%)	81.5	81.5	81.6	81.6	81.6	81.6	81.5	81.5

TABLE 1. Test Data

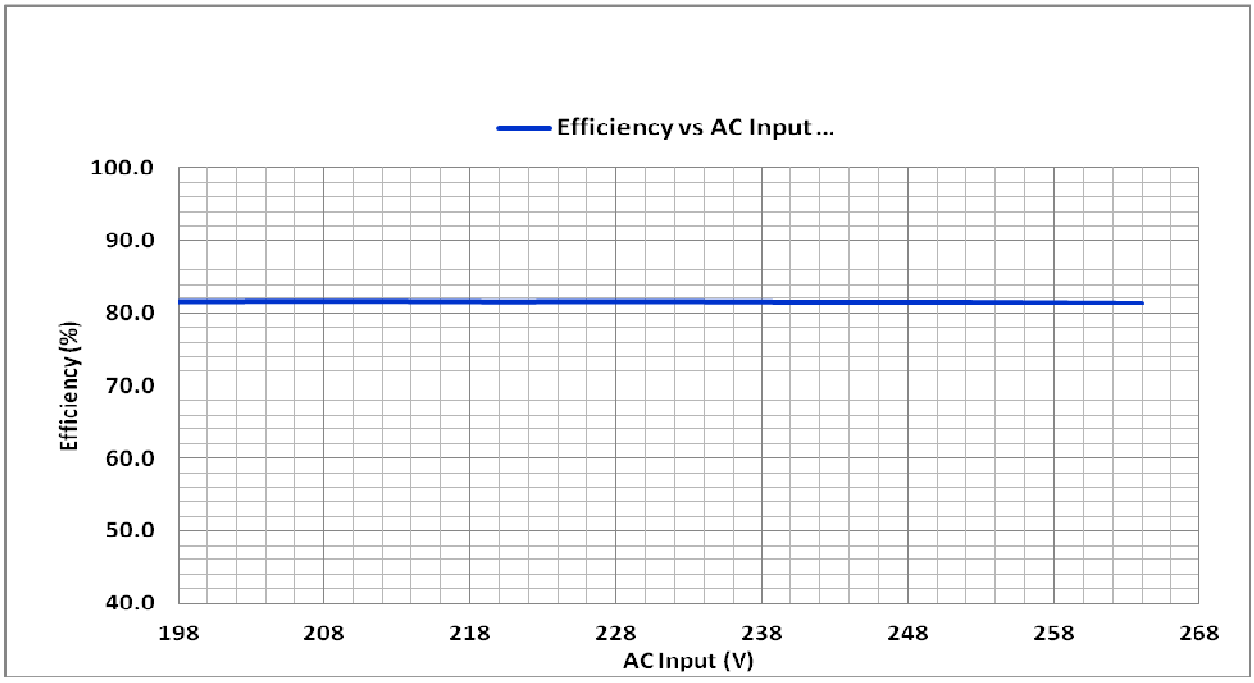

FIGURE 1. Efficiency vs. Line Voltage from 198Vac to 264Vac/50Hz

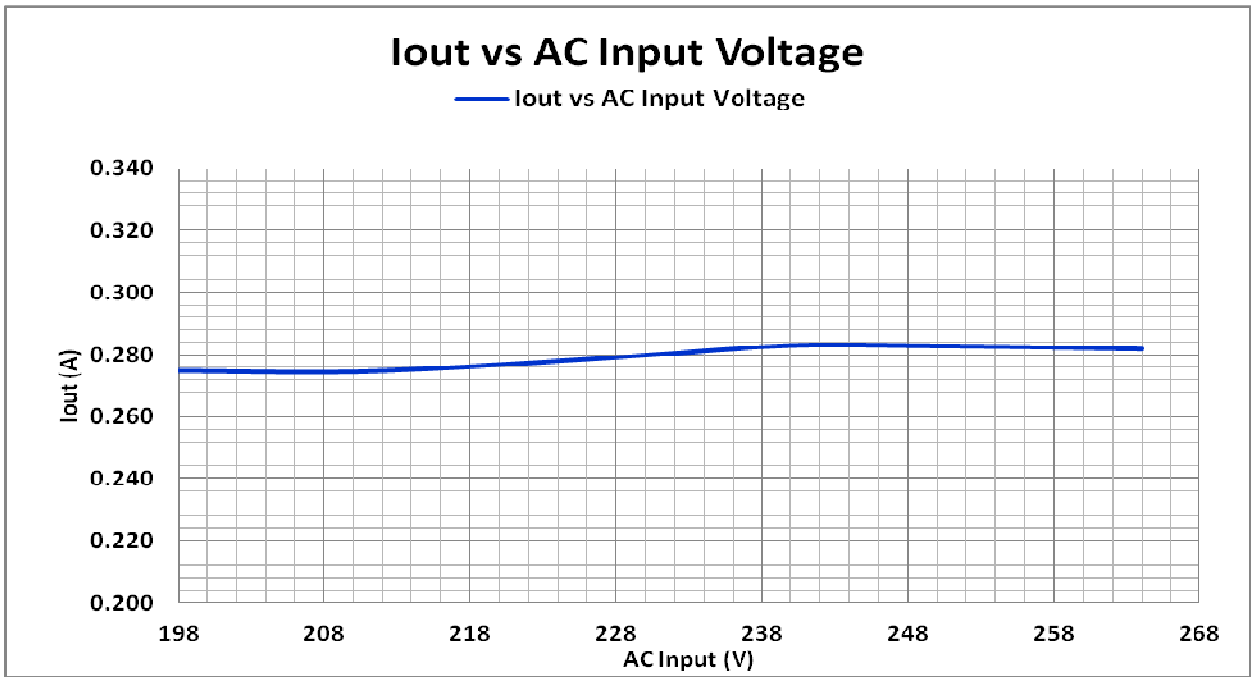

FIGURE 2. LED Current vs. Line Voltage from 198Vac to 264Vac/50Hz

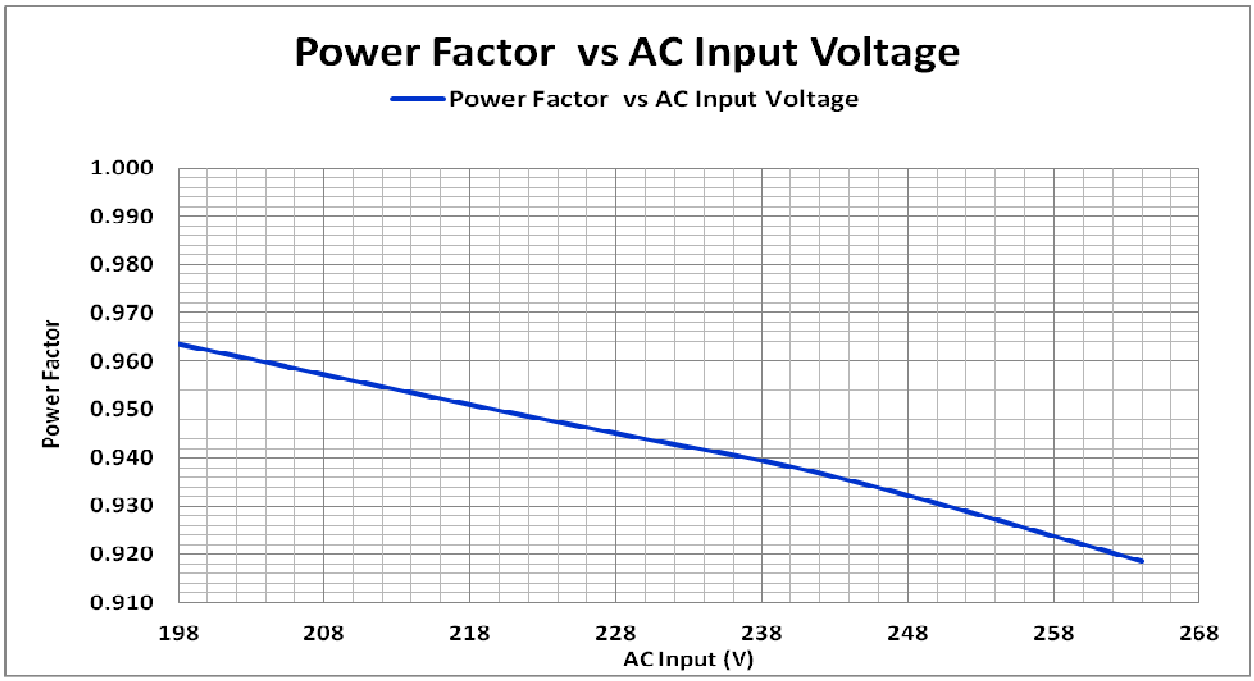

FIGURE 3. Power Factor vs. Line Voltage from 198Vac to 264Vac/50Hz

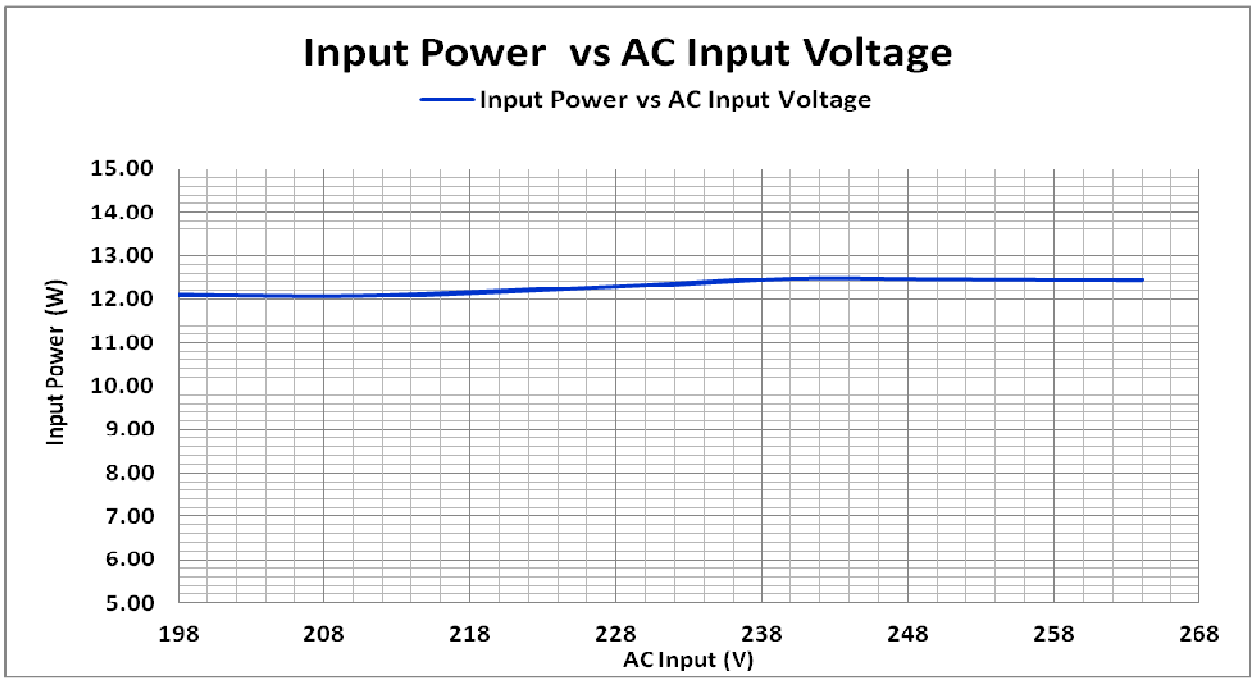

FIGURE 4. Input Power vs. Line Voltage from 198Vac to 264Vac/50Hz

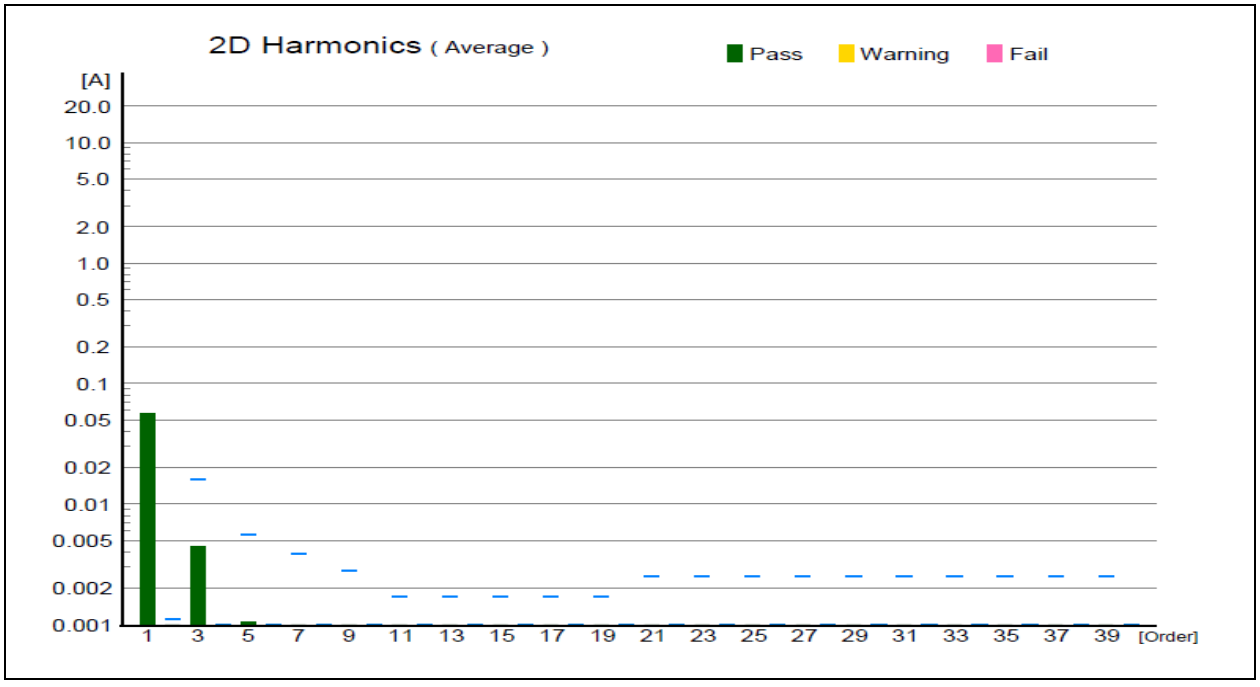

FIGURE 5. Current Harmonic Performance (Average) vs. EN/IEC61000-3-2 Class C Limits at 230VAC/50Hz

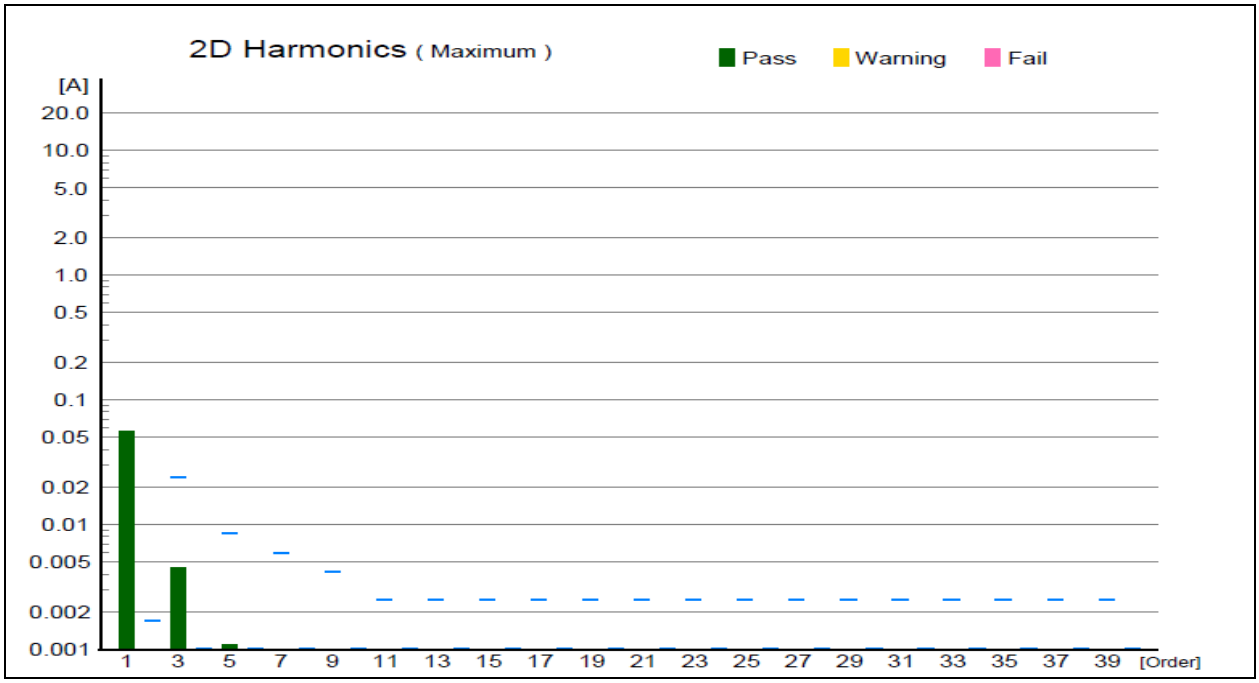

FIGURE 8. Current Harmonic Performance (Maximum) vs. EN

PMP8013 Rev A Test Results

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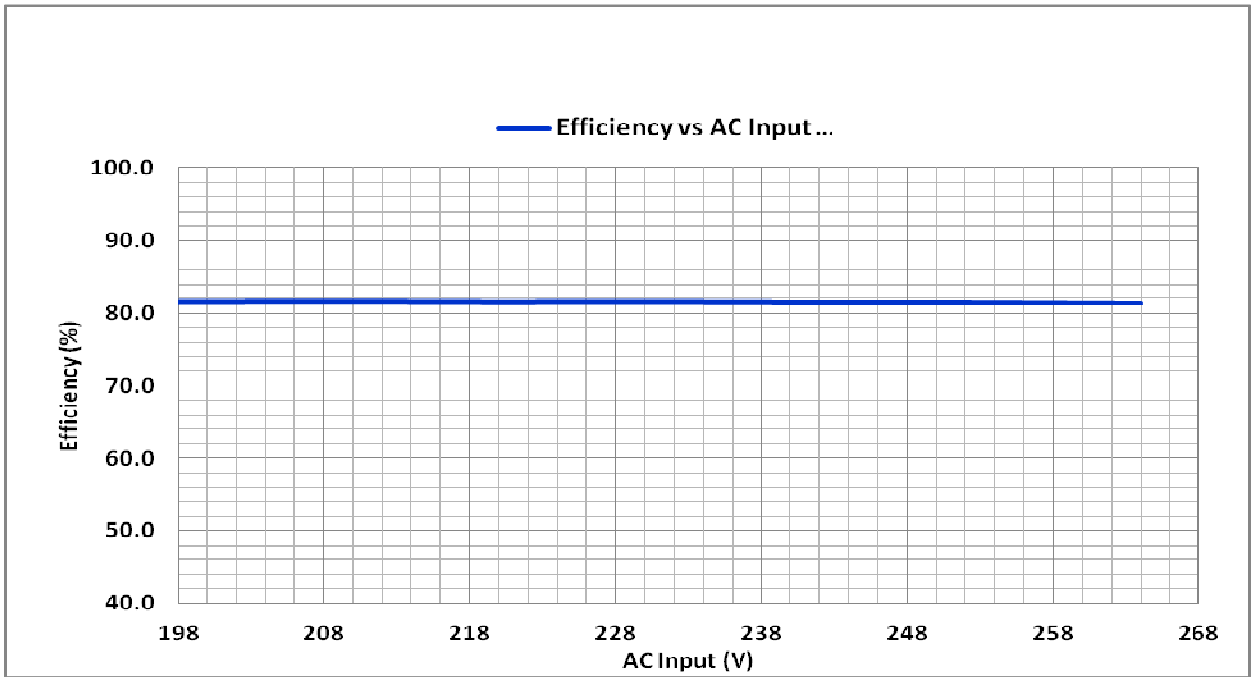

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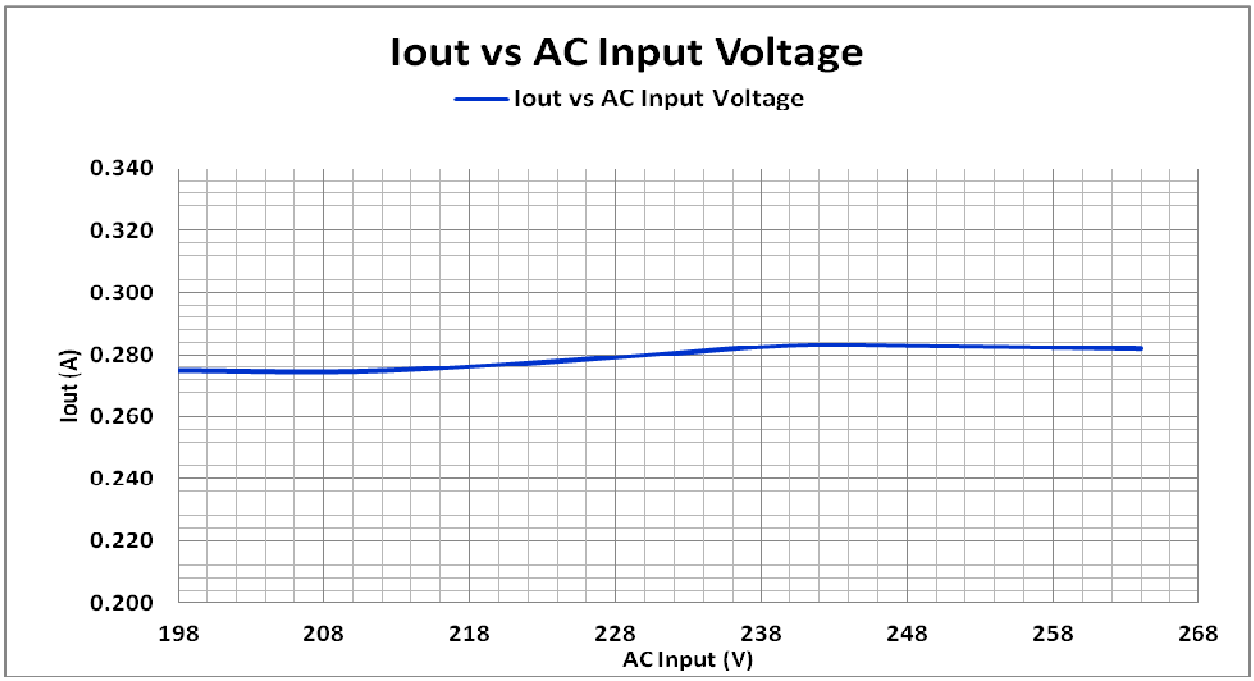


FIGURE 2. LED Current vs. Line Voltage from 198Vac to 264Vac/50Hz

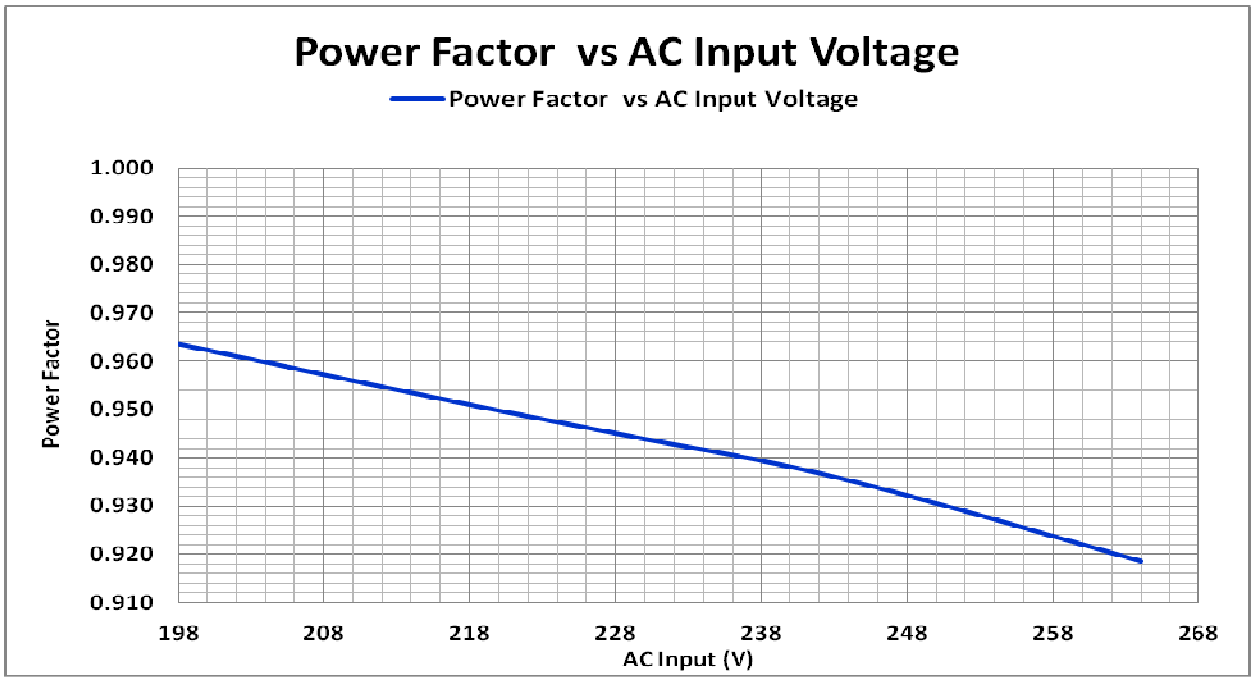


FIGURE 3. Power Factor vs. Line Voltage from 198Vac to 264Vac/50Hz

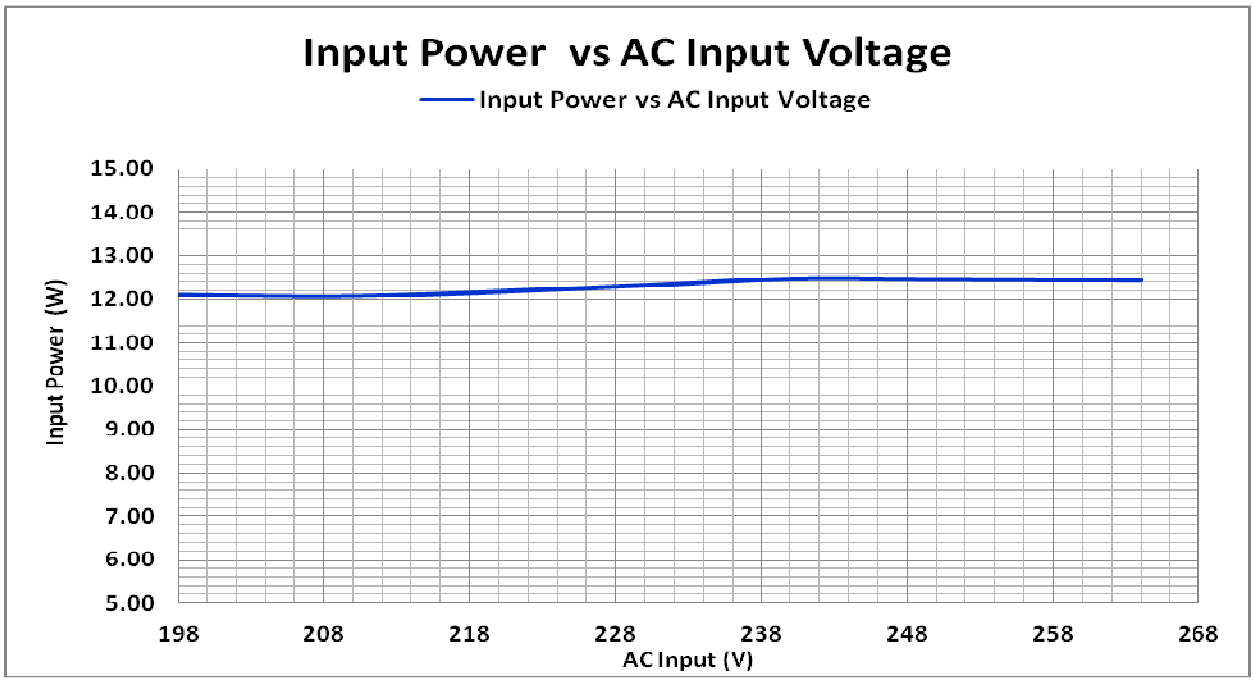
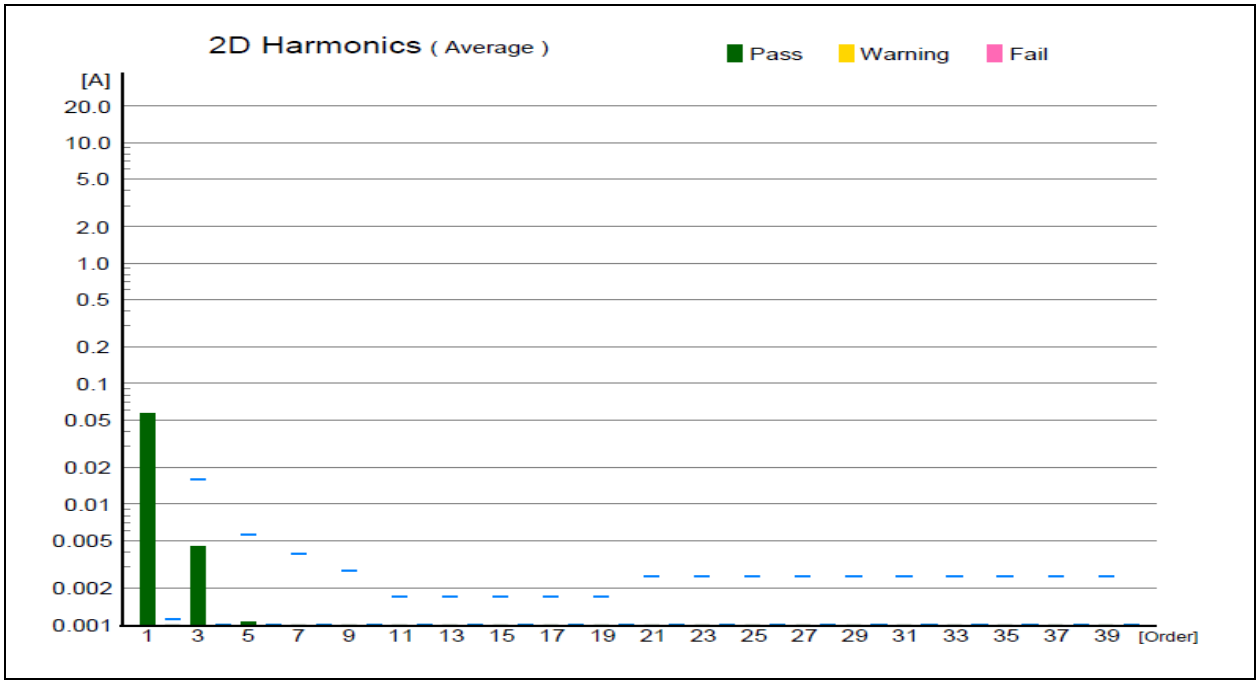


FIGURE 4. Input Power vs. Line Voltage from 198Vac to 264Vac/50Hz



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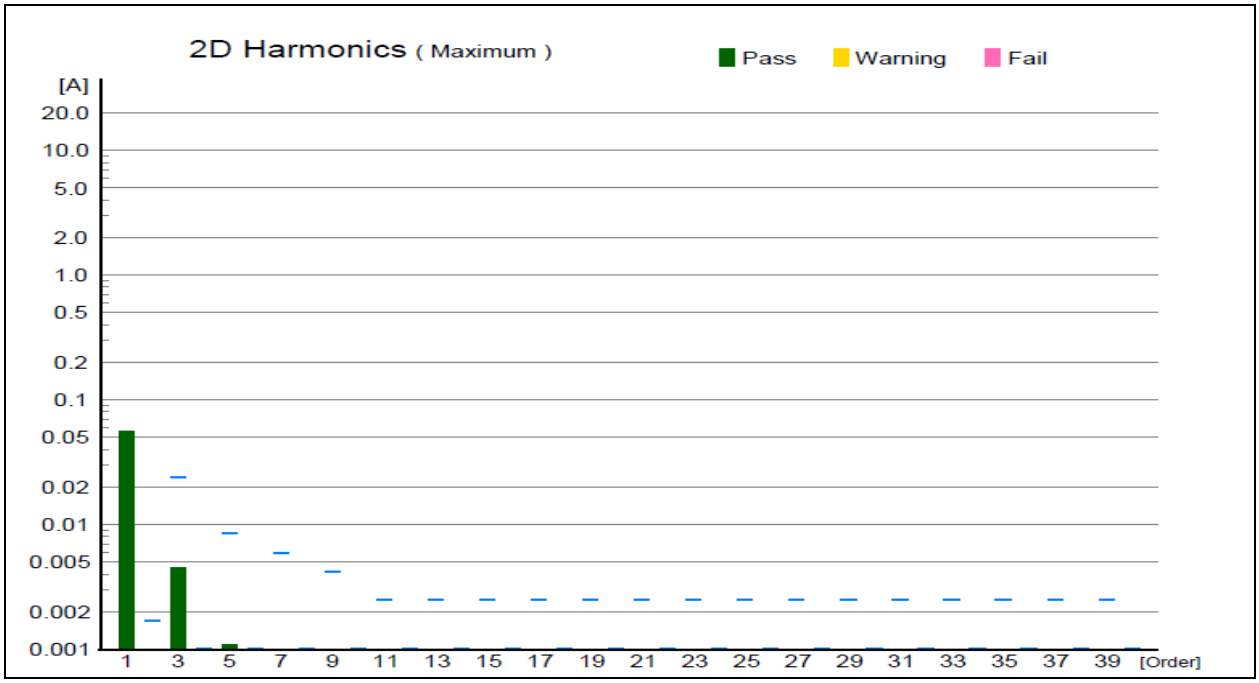

FIGURE 8. Current Harmonic Performance (Maximum) vs. EN

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