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°C
Electrical Performance

<table>
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<tr>
<th>$V_{IN}$ (VAC)</th>
<th>$I_{IN}$ (A)</th>
<th>$f_{LINE}$ (Hz)</th>
<th>$P_{IN}$ (W)</th>
<th>PF</th>
<th>$V_{OUT}$ (V)</th>
<th>$I_{OUT}$ (A)</th>
<th>$P_{OUT}$ (W)</th>
<th>$\eta_{SYS}$ (%)</th>
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<td>198.4</td>
<td>0.042</td>
<td>50</td>
<td>7.93</td>
<td>0.948</td>
<td>19.62</td>
<td>0.343</td>
<td>6.73</td>
<td>84.9</td>
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<tr>
<td>200.4</td>
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<td>7.94</td>
<td>0.946</td>
<td>19.62</td>
<td>0.344</td>
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<td>50</td>
<td>7.98</td>
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<td>0.345</td>
<td>6.77</td>
<td>84.8</td>
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<tr>
<td>220.4</td>
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<td>50</td>
<td>8.03</td>
<td>0.930</td>
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<td>0.346</td>
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<td>84.6</td>
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<td>19.63</td>
<td>0.352</td>
<td>6.92</td>
<td>83.5</td>
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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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