Features

- For LED Outdoor & Industrial Application
- Wide Input Range for Worldwide use (up to 305Vac)
- Built-in PFC Function: up to PF 0.98
- IP67 Design for Outdoor Installation
- Suitable to Dry, Damp, Wet Location
- High Surge Protection: 6kV/6kV (IEC61000-4-5)
- 3 in 1 dimming: 1-10V/PWM/Resistance
- High Reliability & Long Life 50,000hrs
- Constant Current Design/ Low Ripple Current
- All-Round Protections: Short Circuit/ Over Voltage/ Over Temperature
- Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015

320W High Efficiency Dimmable Driver

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FSP320-SZAE(105)MG</th>
<th>FSP320-SZAE(140)MG</th>
<th>FSP320-SZAE(210)MG</th>
<th>FSP320-SZAE(280)MG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power</td>
<td>320.25W</td>
<td>320.6W</td>
<td>319.2W</td>
<td>319.2W</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>152-305V</td>
<td>114-229V</td>
<td>76-152V</td>
<td>57-114V</td>
</tr>
<tr>
<td>Rated Current</td>
<td>1.05A</td>
<td>1.4A</td>
<td>2.1A</td>
<td>2.8A</td>
</tr>
<tr>
<td>Output Ripple Current Accuracy</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Line Regulation</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
</tr>
<tr>
<td>Input Voltage Frequency/Rise time</td>
<td>5s/1s max ; ≤300ms max</td>
<td>5s/1s max ; ≤300ms max</td>
<td>5s/1s max ; ≤300ms max</td>
<td>5s/1s max ; ≤300ms max</td>
</tr>
<tr>
<td>Power Factor (typ.)</td>
<td>PF=0.98/120Vac, PF=0.95/230Vac, PF=0.92/277Vac at full load</td>
<td>PF=0.98/120Vac, PF=0.95/230Vac, PF=0.92/277Vac at full load</td>
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<td>PF=0.98/120Vac, PF=0.95/230Vac, PF=0.92/277Vac at full load</td>
</tr>
<tr>
<td>Efficiency (max.)</td>
<td>94%</td>
<td>94%</td>
<td>94%</td>
<td>94%</td>
</tr>
<tr>
<td>Total Harmonic Distortion (THD)</td>
<td>≤20% (Output Loading)</td>
<td>≤20% (Output Loading)</td>
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<td>≤20% (Output Loading)</td>
</tr>
<tr>
<td>AC Current (typ.)</td>
<td>3.5A /120Vac ; 1.56A/230Vac ; 1.45A/277Vac</td>
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</tr>
<tr>
<td>Inrush Current (typ.)</td>
<td>≤80A at 230Vac, 25°C cold start</td>
<td>≤80A at 230Vac, 25°C cold start</td>
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<td>≤80A at 230Vac, 25°C cold start</td>
</tr>
<tr>
<td>Leakage Current</td>
<td>≤2.5mA/277Vac</td>
<td>≤2.5mA/277Vac</td>
<td>≤2.5mA/277Vac</td>
<td>≤2.5mA/277Vac</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C + 70°C (Please Refer to “Detering Curve”)</td>
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</tr>
<tr>
<td>Operating Humidity</td>
<td>10~95% RH non-condensing</td>
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<td>10~95% RH non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>0.02g/Hz at 5 Hz sloping to 0.04g/Hz at 20 Hz, and maintaining 0.04g/Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G for 30 minutes per axis for all three axes</td>
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</tr>
</tbody>
</table>

Notes:
1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature.
2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth (Rated input and rated output).
3. Derating may be needed under low input voltages. Please check the static characteristics for more details.
4. Measured at rated output voltage.
5. Measured at 230Vac/50Hz input, rated load.
7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
8. UL/CE safety pending
SAE Series
320W High Efficiency Dimmable Driver

Derating Curve

Static Curve

Life Time

Efficiency

PFC vs Loading

THD vs loading

0-10V Dimming Curve

*Direct connecting to LEDs is suggested

0-10V Dimmer

Analog Dimming(V)

Dim+

Dim-
SAE Series
320W High Efficiency Dimmable Driver

MG Type: FSP320-SZAE(XXX)MG

Unit: mm

RG Type: FSP320-SZAE(XXX)RG

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