



200W High Efficiency Constant Current Dimmable Driver

- · For LED Outdoor & Industrial Application
- · Auxiliary 12V/0.2A output Available
- · Wide Input Range for Worldwide use (up to 305Vac)
- · Built-in PFC Function: up to PF 0.99
- · IP67 Design for Outdoor Installation
- $\boldsymbol{\cdot}$ Suitable to Dry, Damp, Wet Location
- · High Surge Protection: 6kV/6kV(IEC61000-4-5)
- · Built-in 3 in 1 dimming function (1-10VDC, PWM signal or resistance)
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · Type HL LED Driver for use in Class I Division 2 Hazardous Location Luminaires
- · All-Round Protections: Short Circuit/ Over Voltage/ Over Temperature
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015



FSP200-FZAE1(XXX)MG

M Type: IP67 rated with 3 in 1 Dimming Function

R Type: IP65 rated and output current can be adjusted through internal potentionmeter



| Model Name | | E00000 E74E1/070110 | E00000 E7454/4000440 | E00000 E7454/500\440 | ECD200 E74E4/000**C |
|-----------------|---------------------------------|---|----------------------|----------------------|----------------------|
| wodel Name | | FSP200-FZAE1(370)MG | FSP200-FZAE1(420)MG | FSP200-FZAE1(560)MG | FSP200-FZAE1(830)MG |
| Output | Rated Power | 200W | 200W | 200W | 200W |
| | Output Voltage | 24-54V | 24-48V | 18-36V | 16-24V |
| | Rated Current | 3.7A | 4.17A | 5.55A | 8.3A |
| | CURRENT ADJ. RANGE | 1850 ~ 3700mA | 2085 ~ 4170mA | 2775 ~ 5550mA | 4150 ~ 8300mA |
| | | Can be adjusted by internal potentiometer for R Type only | | | |
| | Auxiliary DC Output | Nominal 12V(11.4~12.6V)@0.2A | | | |
| | Output Current Accuracy | ±5% | ±5% | ±5% | ±5% |
| | Output Ripple Current (typ.)[2] | ±5% | ±5% | ±5% | ±5% |
| | Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | Turn On Delay Time, Rise time | ≤1s max ;≤300ms max | | | |
| Input | Input Voltage/ Frequency[3] | 90~305Vac/ 47~63Hz (Please refer to Stactic Curve) | | | |
| | Power Factor (typ.) | PF≧0.99/120Vac, PF≧0.96/230Vac, PF≧0.95/277Vac at full load | | | |
| | Efficiency (max.) | 93.5% | 93.5% | 93.5% | 93% |
| | Total Harmonic Distortion[4] | THD <20% (Output Loading ≥50% at 120Vac, Output Loading ≥50% at 230Vac, Output Loading ≥75% at 277Vac) | | | |
| | AC Current (typ.) | ≦2.1A /120Vac ; ≦1.15A /230Vac ; ≦0.95A /277Vac | | | |
| | Inrush Current (typ.) | ≦60A at 230Vac, 25°C cold start | | | |
| | Leakage Current | ≤0.75mA/277Vac | | | |
| Environment | Operating Temperature | -40°C ~ +70°C (Please Refer to "Derating Curve") | | | |
| | Operating Humidity | 20~95% RH non-condensing | | | |
| | Storage Temperature, Humidity | -40°C~+80°C, 10%~95%RH | | | |
| | Vibration | 0.02g²/Hz at 5 Hz sloping to 0.04g²/Hz at 20 Hz, and maintaining 0.04g²/Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G for | | | |
| | | 30 minutes per axis for all three axes | | | |
| Protection | Over Voltage Protection | <80V | <63V | <63V | <35V |
| | | Protection Type: Recovers automatically after fault condition is removed | | | |
| | Short Circuit Protection | Recovers automatically after fault condition is removed | | | |
| | Over Temperature Protection | Recovers automatically after fault condition is removed | | | |
| Safety & EMC | Safety Standards | UL8750, Type HL, CSA-C22.2 No. 250.13, EN61347-1, EN61347-2-13 Approved. | | | |
| | EMC Standard | Compliant with EN55015/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C (≥60% load), EN61000-3-3 | | | |
| | Surge Protection | Differential Mode: 6KV; Common Mode: 6KV | | | |
| | Withstand Voltage (Hipot) | I/P-O/P 3000Vac, I/P-FG 1500Vac, O/P-FG 500Vac | | | |
| | Isolation Resistance | I/P-CASE ,O/P-CASE: 25M ohm @ 500Vdc/ 25°C | | | |
| Others - | Life Time [5] | 50,000 hours at Tcase of ≤ 75°C | | | |
| | MTBF | 200,000 hours, MIL-HDBK-217F(25°C) | | | |
| | Dimension (LxWxH) | 228 x 68 x 38.8 mm | | | |
| | Net Weight / Packing | 1100g; 10 pcs/ box | | | |

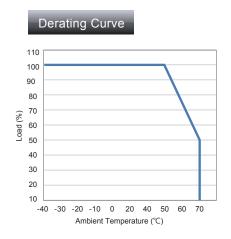
- All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
- 2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output) 3. Derating may be needed under low input voltages. Please check the static characteristics for more details
- 4. Measured at rated output voltage
- 5. Measured at 230Vac/50Hz input, rated load.
- 6. 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.

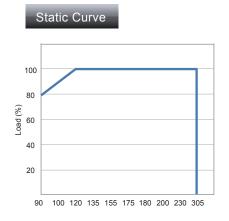


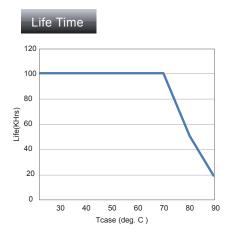
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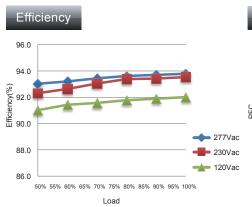
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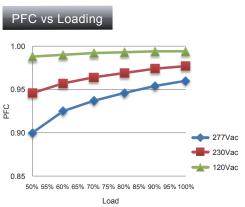


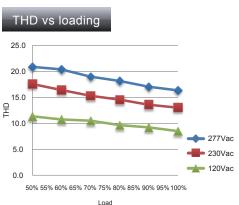






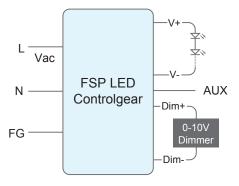


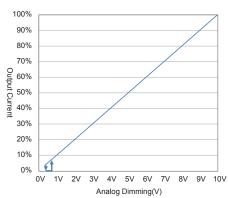




0-10V Dimming Curve

- *Direct connecting to LEDs is suggested
- *Dim off Voltage: 0.3V (typical)
- *Dim on Voltage:0.7V (typical)





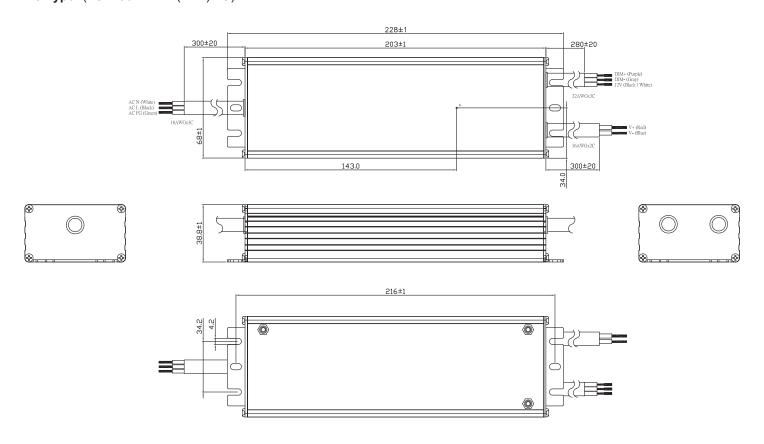
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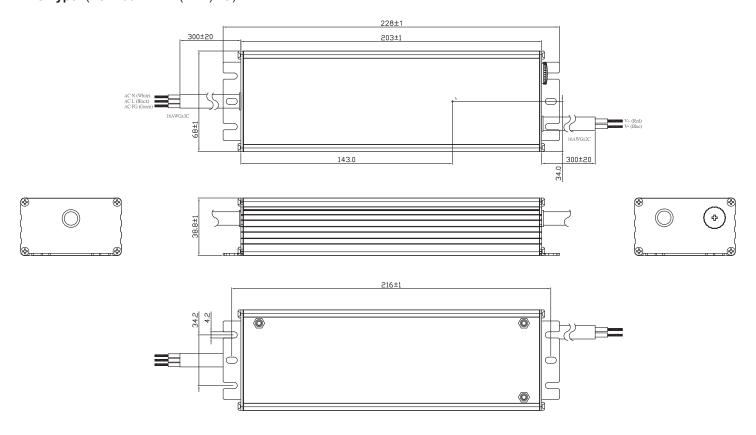


MG Type: (FSP200-FZAE1(XXX)MG)

Unit: mm



RG Type: (FSP200-FZAE1(XXX)RG)



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