

### Features

- For LED indoor office & retail Application
- High reliability & long life 50,000hrs
- Compact size / optimized performance
- Constant current design / low inrush current / low ripple current
- Wide input range for worldwide use (up to 305Vac)
- Low energy consumption at standby
- Protections: short circuit / open circuit / over voltage / over temperature
- Class 2 power unit
- 100% burn-in Test
- Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015

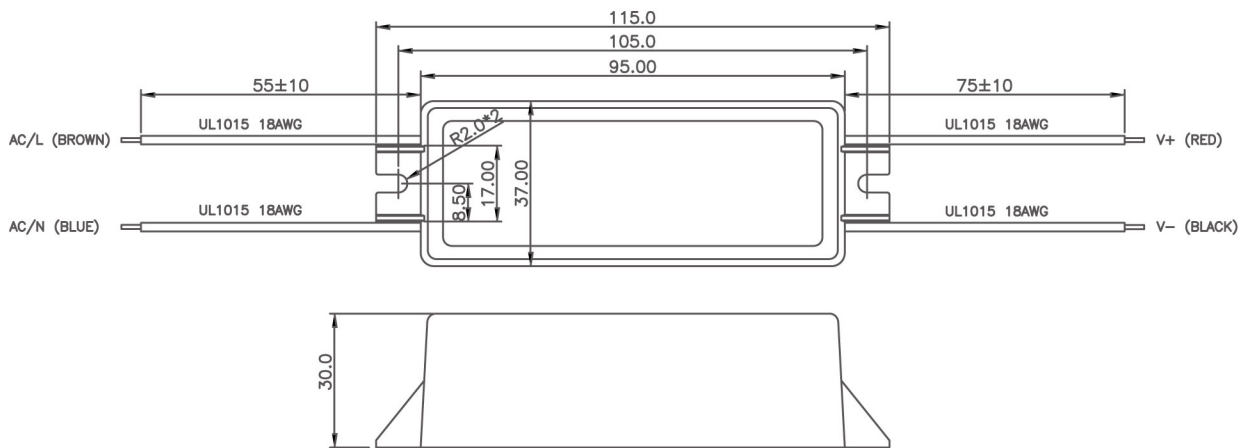


SPECIFICATION						
Model Name	FSP012-1ZZN1AP(035)	FSP012-1ZZN1AP(050)	FSP012-1ZZN1AP(070)	FSP018-1ZZN1AP(035)	FSP018-1ZZN1AP(050)	FSP018-1ZZN1AP(070)
Rated Power	12W	12W	13W	18W	20W	18W
Output Voltage	3-34V	3-24V	3-18V	3-52V	3-40V	3-26V
Rated Current	350mA	500mA	700mA	350mA	500mA	700mA
Efficiency (typ.)	85%	85%	85%	86%	86%	86%
Input Voltage/ Frequency	120~277Vac/ 47~63Hz					
Power Factor (typ.)	PF≥0.95					
Turn On Delay Time/ Rise time	0.5s max/ 80ms max.					
Inrush Current (typ.)	5A cold start					
Life Time [2]	50,000 hours					
Operating Temperature	-20°C~+50°C					
Output Current Accuracy	±5%	±5%	±5%	±5%	±5%	±5%
Output Ripple Current[3]	±5%	±5%	±5%	±5%	±5%	±5%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
AC Current (typ.)	0.126A max @ 120Vac			0.198A max @ 120Vac		
Leakage Current	≤0.75mA /277Vac					
Operating Humidity	20%~95%RH					
Storage Temperature	-40°C~+85°C					
Storage Humidity	10%~95%RH					
Vibration	0.01g <sup>2</sup> /Hz at 5 Hz sloping to 0.02g <sup>2</sup> /Hz at 20 Hz, and maintaining 0.02g <sup>2</sup> /Hz from 20 Hz to 500 Hz at a constant acceleration of 3.13G for 20 minutes per axis for all three axes					
IP Level	IP20					
Over Voltage Protection	<60V	<50V	<40V	<95V	<60V	<50V
	Auto Recovery					
Other Protections	SCP; Open Circuit Protection; OTP ; OLP					
Surge Voltage	Differential Mode≥1KV; Common Mode≥2KV					
Withstand Voltage (Hipot)	I/P-O/P 3750Vac, I/P-FG 1875Vac					
Isolation Resistance	I/P-O/P I/P-FG: 100M ohm @ 500Vdc/ 25C					
Safety Standards	EN61347-1, EN61347-2-13, UL8750					
EMC Standard	Compliant with EN55015/EN55022/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C (≥60% load) EN61000-3-3, Compliant with EN61000-4-2, 3, 4, 5, 6, 8, 11					
Dimension (LxWxH)	115x37x30 (mm) ; 4.5"x1.45" x1.18" (in)					
Net Weight/Packing	100g pc ; 24 pcs / box					
Suggested No. of LEDs	5-11	4-8	3-6	9-17	6-13	4-8

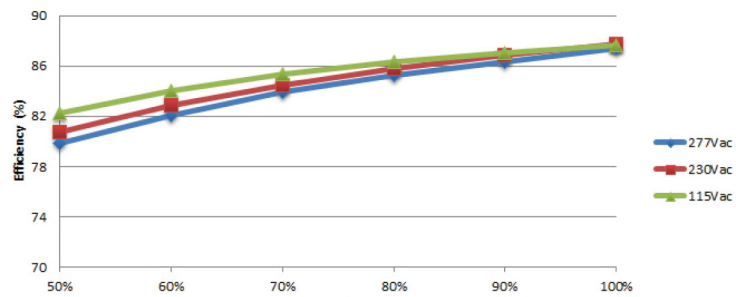
### Notes:

1. Data tested under 230 Vac/ 50Hz full load condition without specially mentioned
2. Data at full load and rated voltage, 230VAC/50Hz input, and 35°C ambient temperature unless otherwise specified
3. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)

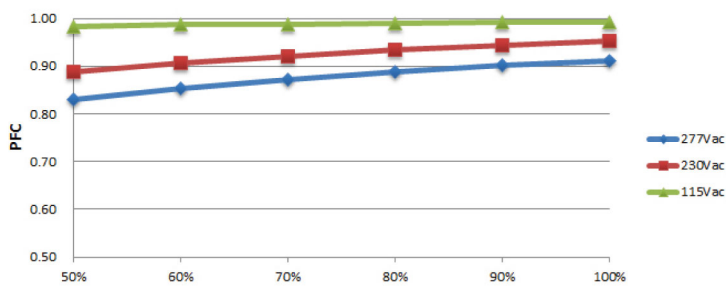




Efficiency



PFC vs Loading



THD vs Input Voltage

