

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



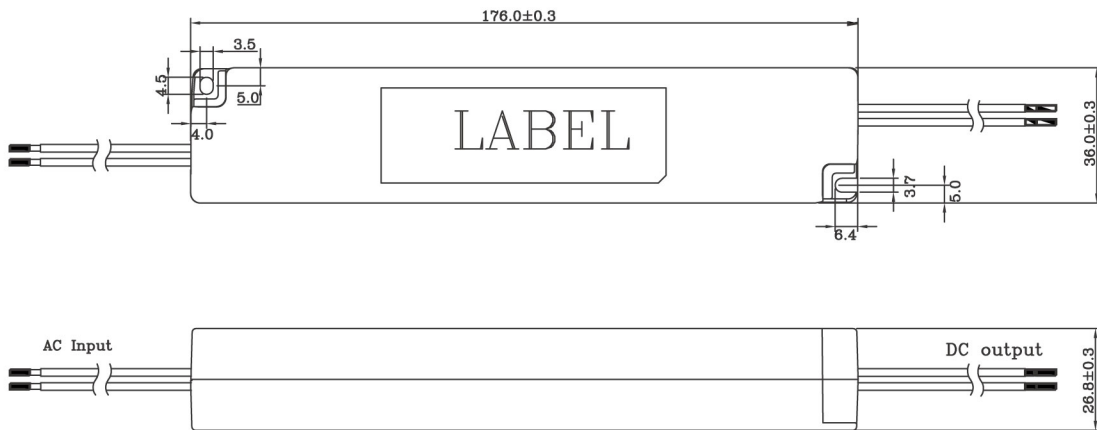
SPECIFICATION

Model Name	FSP030-1ZZN1AP(050)	FSP030-1ZZN1AP(060)	FSP030-1ZZN1AP(070)
Rated Power	24W	28.8W	33.6W
Output Voltage	3-48V	3-48V	3-48V
Rated Current	500mA	600mA	700mA
Efficiency (typ.)	89%	88%	88%
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%
Output Ripple Current[3]	±5%	±5%	±5%
Line Regulation	±0.5%	±0.5%	±0.5%
AC Current (typ.)	0.317A 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 ² /Hz at 5 Hz sloping to 0.02g ² /Hz at 20 Hz, and maintaining 0.02g ² /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	<60V	<60V
	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)	176x36x26.8 (mm); 6.9"x1.4"x1" (in)		
Net Weight/Packing	178g ; 42 pcs / box		
Suggested No. of LEDs	8-16	8-16	8-16

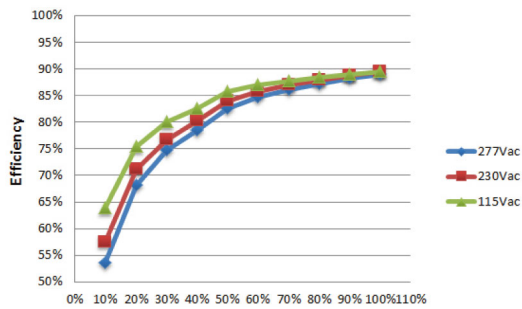
Notes:

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)

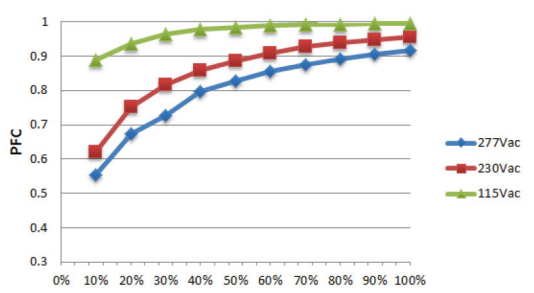




Efficiency



PFC vs Loading



THD vs Input Voltage

