

### Features

- For LED Outdoor & Industrial Application
- High Reliability & Long Life 50,000hrs
- Ultra-high Efficiency: up to 95%
- Built-in PFC Function: up to PF 0.96
- Wide Input Range for Worldwide use (up to 305Vac)
- Lightning Protection: 3kV/6kV
- IP67 Design for Outdoor Installations
- All-round protection: OVP, OTP, SCP, & Open Circuit Protection
- 100% Burn-in Test
- Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015



## SELV IP67 CE

### SPECIFICATION

Model Name	FSP120-NZKVH-24	FSP120-NZKVH-30	FSP120-NZKVH-36	FSP120-NZKVH-42	FSP120-NZKVH-48	FSP120-NZKVH-54
Rated Power	120W	120W	120W	120W	120W	120W
Output Voltage	24V	30V	36V	42V	48V	54V
Rated Current	0-5.0A	0-4.0A	0-3.33A	0-2.86A	0-2.5A	0-2.22A
Efficiency (typ.)	92.5%	94%	94%	95%	94.5%	94.5%
Input Voltage/ Frequency	120-277Vac/ 47-63Hz					
Power Factor (typ.)	PF≥0.95/230Vac @ full load, 230Vac/50Hz and rated output voltage					
Turn On Delay Time	2.0s max. @ full load 230Vac/50Hz					
Inrush Current	75A max. @ full load 230Vac/50Hz, cold start					
Life Time	50,000 hours, full load and rated voltage @ 40°C					
Operating Temperature	-40°C~+70°C (refer to de-rating curve)					
Output Voltage Accuracy	±5%	±5%	±5%	±5%	±5%	±5%
Ripple & Noise (max.) [3]	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
AC Current (typ.)	0.66A/230Vac ; 0.60A/277Vac					
Leakage Current	≤0.75mA /277Vac					
Operating Humidity	0~100%RH					
Storage Temperature	-40~+85°C					
Storage Humidity	0~100%RH					
Vibration	10 to 300Hz sweep at a constant acceleration of 1.0G (3.5mm breadth) for 1 hour for each perpendicular axes X, Y, Z					
IP Level	IP67					
Protections	OCP : 130~200% Io ; OVP ; OTP ; SCP					
Over Voltage Protection	35V	45V	45V	58V	68V	70V
Surge Voltage	Differential Mode≥3KV; Common Mode≥6KV					
Withstand Voltage (Hipot)	I/P-O/P 3750Vac, I/P-FG 1875Vac					
Isolation Resistance	I/P-O/P I/P-FG: 100M ohm @ 500Vdc					
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					
Harmonic Current	Compliant with EN61000-3-2 Class C (≥60% load) EN61000-3-3					
EMS Immunity	Compliant with EN61000-4-2, 3, 4, 5, 6, 8, 11					
MTBF	200,000 hours, MIL-HDBK-217F(25°C)					
Dimension (LxWxH)	180x68x42.5mm without bracket, 206x68x42.5mm with bracket					
Net Weight/ Packing	1 kg ; 16 pcs / box					

### Notes:

1. Data that didn't mention is tested under 230Vac/ 50Hz full load condition
2. Data at full load and rated voltage, 230Vac/50Hz input, and 25°C ambient
3. Measurement at 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (Rated input and rated output)
4. The Power supply is considered as a component that will be operated 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.

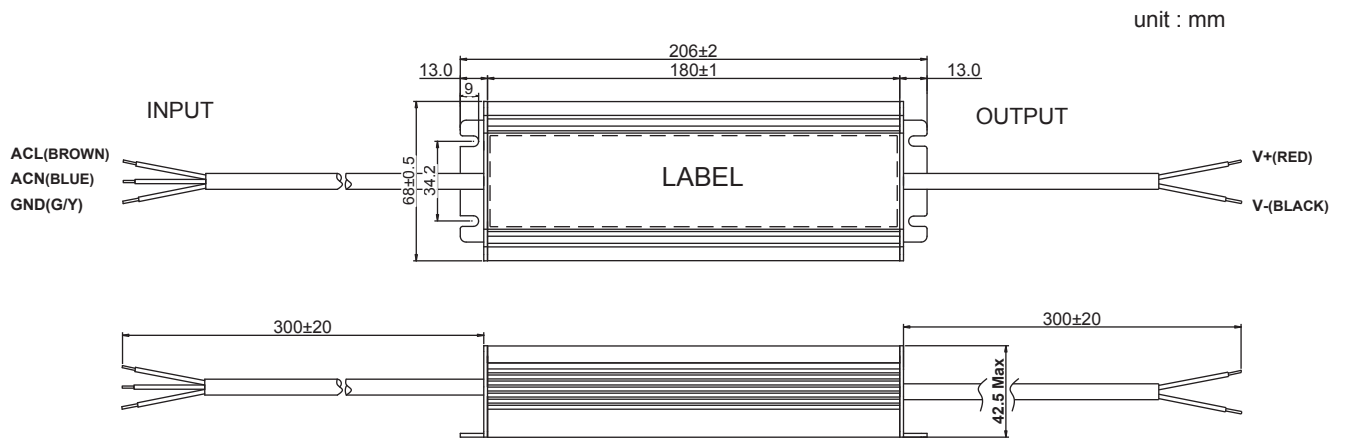


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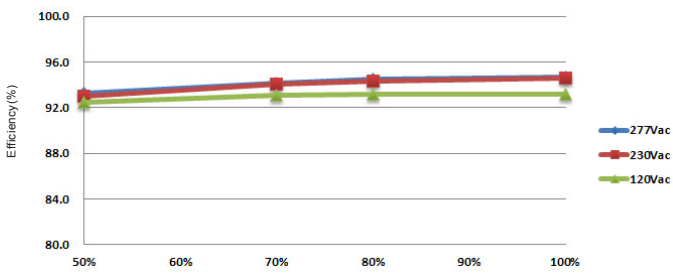
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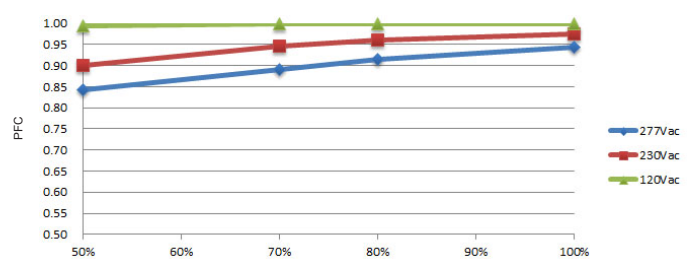
120W Series Drawing



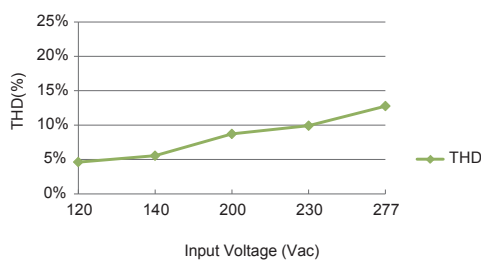
Efficiency



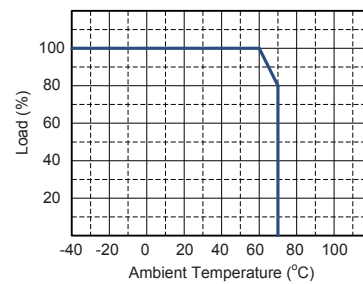
PFC vs Loading



THD vs Input Voltage



Derating Curve



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