

### Features

- For LED Outdoor & Industrial Application
- High Reliability & Long Life 50,000hrs
- Built-in PFC Function: up to PF 0.96
- Ultra-high Efficiency: Up to 94%
- 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



IP67 CE SELV EAC  
AB29

### SPECIFICATION

Model Name		KCH-120-700	KCH-120-1050	KCH-120-1400	KCH-120-2100	KCH-120-2500	KCH-120-2800	KCH-120-3150
Output	Rated Power	120W	120W	120W	120W	120W	120W	120W
	Output Voltage	127~171V	85~114V	63~85V	42~57V	37~49V	32~43V	28~38V
	Rated Current	700mA	1050mA	1400mA	2100mA	2500mA	2800mA	3150mA
	Output Ripple Current	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Input	Input Voltage/ Frequency	120~277Vac/ 47~63Hz						
	Power Factor (typ.)	PF≥0.95/230Vac @ full load, 230Vac/50Hz and rated output voltage						
	Efficiency (typ.)	93.5%	93.5%	93.5%	93.0%	93.0%	92.5%	92.5%
	Inrush Current (typ.)	75A max. @ full load 230Vac/50Hz, cold start						
	Leakage Current	≤0.75mA /277Vac						
Environment	Operating Temperature	-40°C~+70°C (refer to de-rating curve)						
	Operating Humidity	0~100%RH						
	Storage Temperature, Humidity	-40~+85°C : 0~100%RH						
Protection	Over Voltage Protection	280V	160V	120V	85V	68V	63V	58V
	Other Protections	OTP ; SCP						
Safety & EMC	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						
	Pulsation Level	5%	5%	5%	5%	5%	5%	5%
	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						
Others	Life Time	50,000 hours, full load and rated voltage @ 40°C						
	MTBF	200,000 hours, MIL-HDBK-217F(25°C)						
	Dimension (LxWxH)	206 x 68 x 42.5mm with bracket						
	Net Weight / Packing	1 kg ; 16 pcs / box						

#### Notes:

1. Data at full load and rated voltage, 230Vac/50Hz input, and 25°C ambient temperature unless otherwise specified.
2. Measurement at 20MHz bandwidth oscilloscope (Rated input and rated output)
3. The input voltage information on the label should be marked ±10% less than the original input voltage, to conform with safety regulations.
4. 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 luminary manufacturers must re-qualify EMC Directive on the complete installation again.



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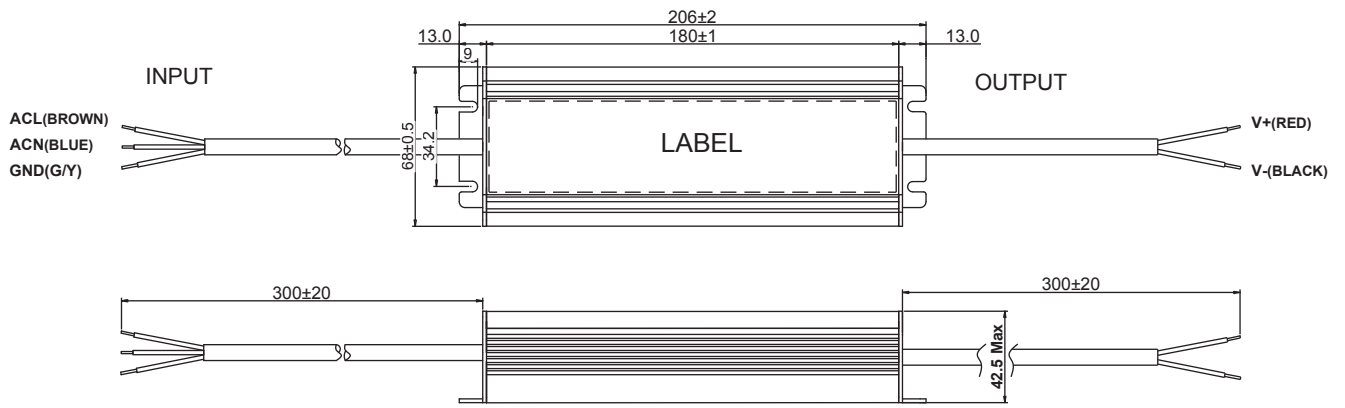
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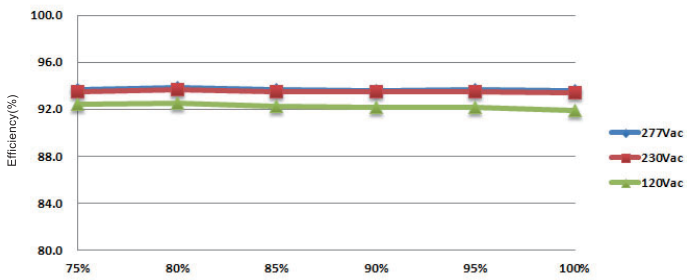


120W Series Drawing

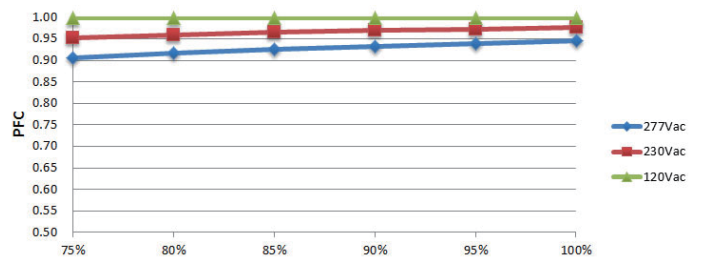
unit : mm



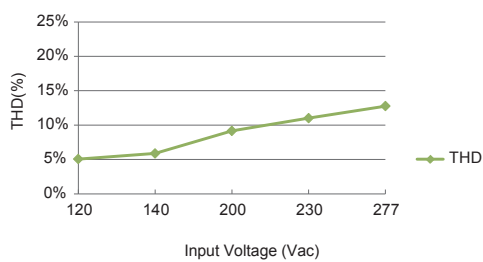
Efficiency



PFC vs Loading



THD vs Input Voltage



Derating Curve

