F120CL2 Series

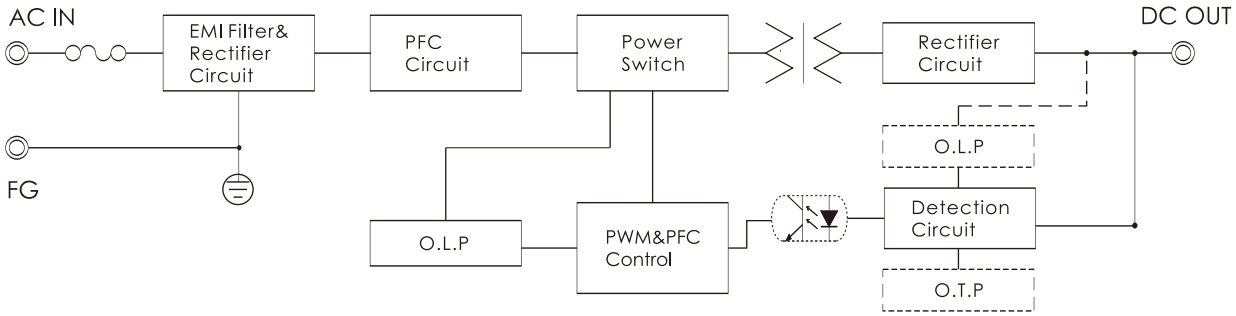
120W single output with c.c circuit
and PFC function

- Constant current design
- Built-in PFC function
- Protections:Over current/ Short circuit/ Over temperature
- IP68 design for outdoor installations
- Suitable for LED lighting and street lighting applications
- Safety standards : K61347-2-1,K61347-2-13,
- EMC standards : K00015,K61547
- Metal case
- 5years warranty

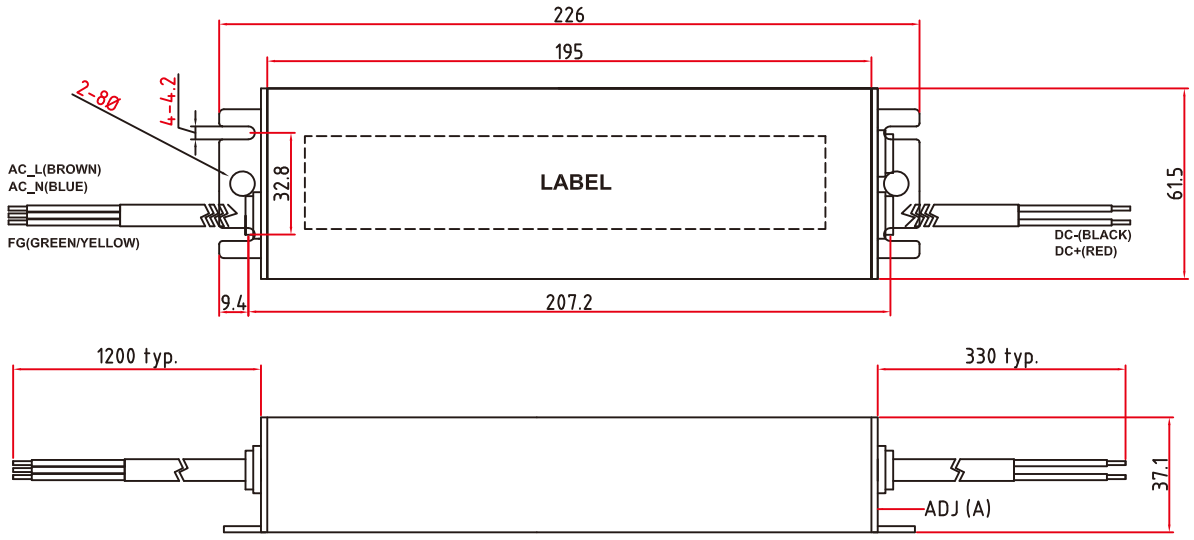
IP68 SELV LPS

ITEM		UPF120S30CL2	UPF120S36CL2	UPF120S48CL2
INPUT	VOLTAGE RANGE	AC180~264V		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR	PF>0.95 at over 90% of rated power		
	EFFICIENCY(typ.)	90%	91%	92%
	AC CURRENT(typ.)	0.57A/220VAC(typ)		
	INRUSH CURRENT(typ.)	30A/220VAC		
	LEAKAGE CURRENT	<2.5mA / 220VAC		
OUTPUT	RATED CURRENT	3.6A	3.03A	2.3A
	CONSTANT CURRENT REGION	22-30V	26-36V	36-48V
	RATED POWER	108W	109W	110W
	CURRENT ADJ. RANGE	2.5~3.96A	2.5~3.33A	1.8~2.53A
	CURRENT ACCURACY	±5%		
	RIPPLE&NOISE(max.) Note2	0.36Vp-p	0.36Vp-p	0.48Vp-p
	SETUP,RISE TIME(max.)	300ms/220VAC at full load		
PROTEC -TION	OVER CURRENT Note3	Over 95~115% of rating		
	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed		
	OVER TEMPERATURE	80±10℃(temp. Sensor) ; recovers automatically after fault condition is removed		
ISOLA -TION	WITHSTAND VOLTAGE	I/P-O/P:AC3.75KV, I/P-F.G:AC2KV, O/P-F.G:AC0.5KV		
	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 100Mohms(At room temp. & humid.)		
ENVIRON -MENT	WORKING TEMP.&HUMID.	-30~+50℃(Refer to "DERATING CURVE),20~95%RH		
	STORAGE TEMP.&HUMID.	-40~+80℃,10~95%RH		
	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
OTHERS	DIMENSION/WEIGHT	226*61.5*37.1mm(L*W*H)/0.86Kg		
NOTE	1. All parameters not specially mentioned are measured at 220Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor. 3. Refer to "DRIVING METHODS of LED MODULE" 4. Turn on the AC switch after connecting the driver and the LED load			

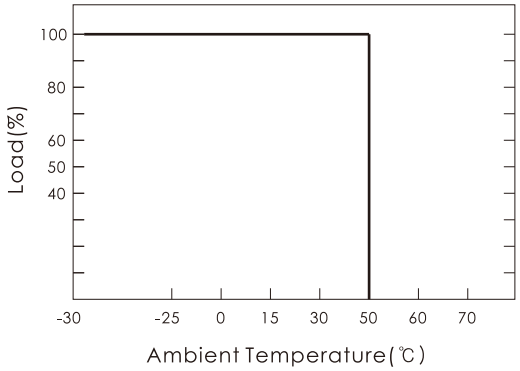
■ BLOCK DIAGRAM



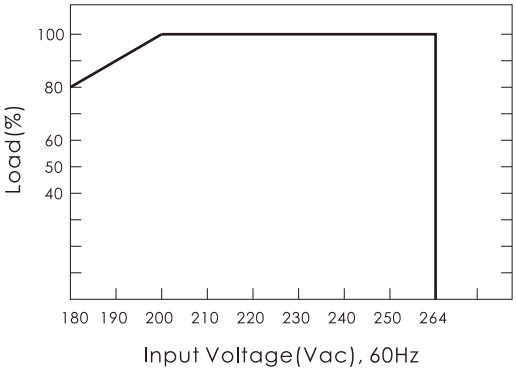
■ DIMENSIONS(unit:mm)



■ DERATING CURVE

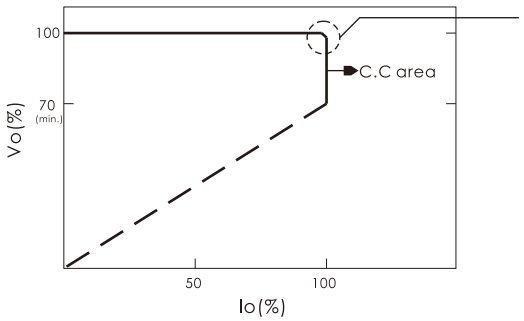


■ STATIC CHARACTERISTICS



■ DRIVING METHODS of LED MODULE

- This series works in constant current mode to directly drive the LEDs



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the systems.