

# F100CP2 Series

100W single output with C.C circuit and PFC function



- Constant current design
- Built-in PFC function
- Protections: Over current / Short circuit
- IP68 design for outdoor installations
- 100% full load burn-in test
- Suitable for LED lighting and street lighting applications
- Safety standards : K61347-1, K61347-2-13,
- EMC standards : K00015, K61547
- Metal case

IP68      SELV   

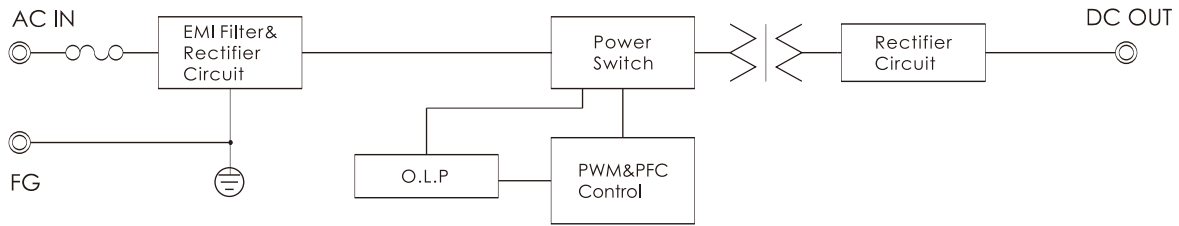
ITEM		UPF100S30CP2	UPF100S36CP2	UPF100S48CP2
INPUT	VOLTAGE RANGE	AC180~264V		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR	PF>0.95 at over 75% of rated power		
	EFFICIENCY(typ.)	90%	90%	90%
	AC CURRENT(typ.)	0.45A/220VAC		
	INRUSH CURRENT(typ.)	10A/220VAC		
	LEAKAGE CURRENT	<2.5mA / 220VAC		
OUTPUT	RATED CURRENT	3A	2.5A	1.9A
	CONSTANT CURRENT REGION	18-38V	20-48V	36-48V
	RATED POWER	90W		
	CURRENT ADJ. RANGE	1.95~3A	1.6~2.5A	1.25~1.9A
	CURRENT ACCURACY	±5%		
	RIPPLE&NOISE(max.) Note2	3500mVp-p		
	SETUP,RISE TIME(max.)	3000ms,100ms/220VAC at full load		
PROTEC-TION	OVER CURRENT Note3	Over 95~108% of rating		
	SHORT CIRCUIT	Hiccup mode ; 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:AC1.5KV		
	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	184*61.5*37.1mm(L*W*H)/0.66Kg		
NOTE	<p>1. All parameters not specially mentioned are measured at 220Vac input, rated load and 25℃ of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1 uF &amp; 47uF parallel capacitor.</p> <p>3. Refer to "DRIVING METHODS of LED MODULE"</p> <p>4. Turn on the AC switch after connecting the driver and the LED load</p>			

S.M.P.S

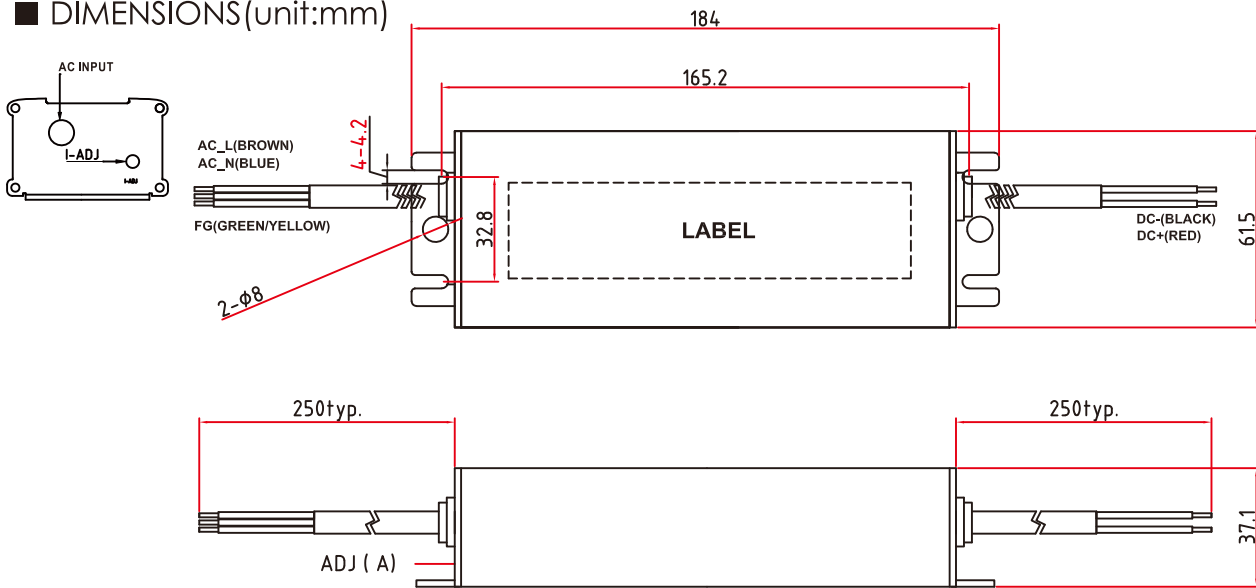
LED Converter

Water Proof Converter

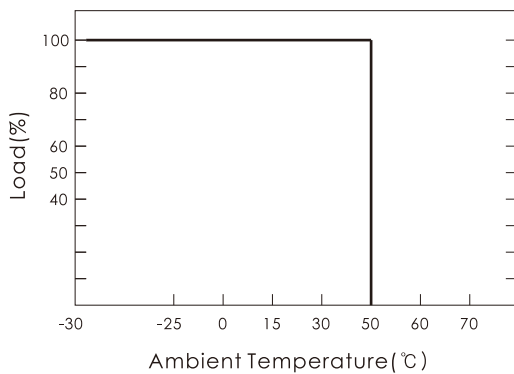
■ BLOCK DIAGRAM



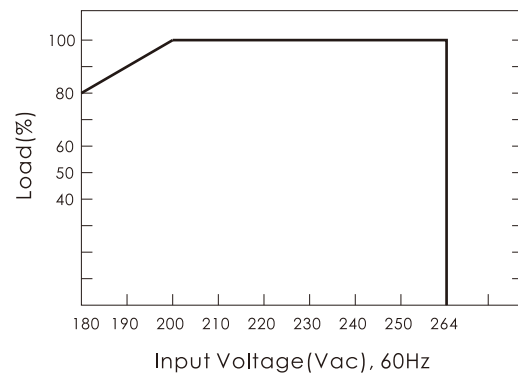
■ DIMENSIONS (unit:mm)



■ DERATING CURVE

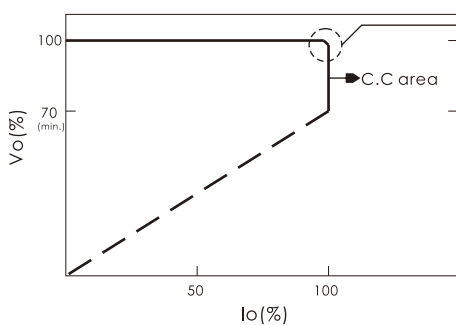


■ STATIC CHARACTERISTICS



■ 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.