

S.M.P.S

LED Converter

Water Proof Converter

F100WQ2 Series

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



- Constant voltage design
- Built-in PFC function
- Low THD(Total Harmonic Distortion)
- Protections:Over current /Over voltage /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 : K61547,K00015
- Metal case

IP68   SELV   

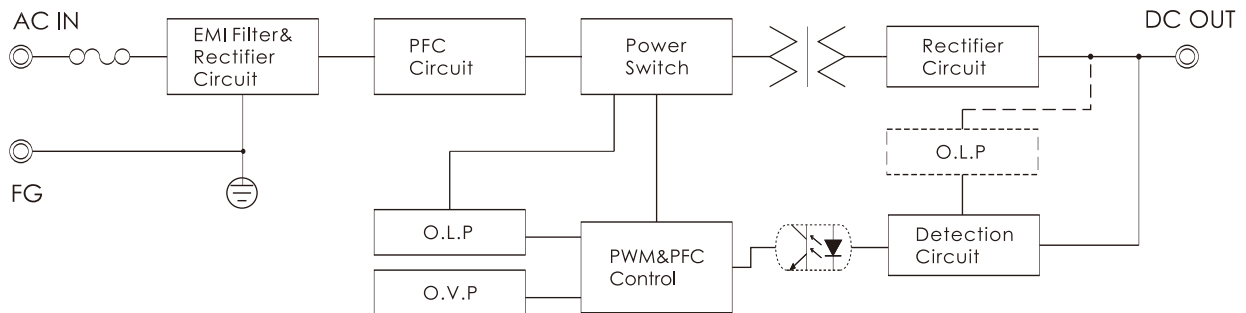
ITEM		UPF100S12WQ2	UPF100S24WQ2	UPF100S36WQ2	UPF100S48WQ2
INPUT	VOLTAGE RANGE	AC160~305V			
	FREQUENCY RANGE	47~63Hz			
	POWER FACTOR	PF>0.95 at rated power			
	THD(max.)	THD<10%(@220VAC & full load)			
	EFFICIENCY(typ.)	85%	88%	88%	89%
	AC CURRENT(typ.)	0.45A/220VAC		0.44A/220VAC	
	INRUSH CURRENT(typ.)	40A/230VAC			
	LEAKAGE CURRENT	<2.5mA / 230VAC			
OUTPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	7.1A(5.4A@50℃)	3.6A(2.7A@50℃)	2.4A(1.8A@50℃)	1.8A(1.4A@50℃)
	RATED POWER	86W(64.8W@50℃)			86W(67.2W@50℃)
	VOLTAGE TOLERANCE	±3%			
	RIPPLE&NOISE(max.) Note2	150mVp-p	300mVp-p	450mVp-p	600mVp-p
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load			
	HOLD UP TIME(typ.)	50ms/230VAC at full load			
PROTEC-TION	OVER CURRENT Note3	Over 110% of rating ; recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed			
	OVER VOLTAGE	110~140% of rating			
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.	-40~+70℃ (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)/0.64Kg			
NOTE	1. All parameters not specially mentioned are measured at 230vac 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”				

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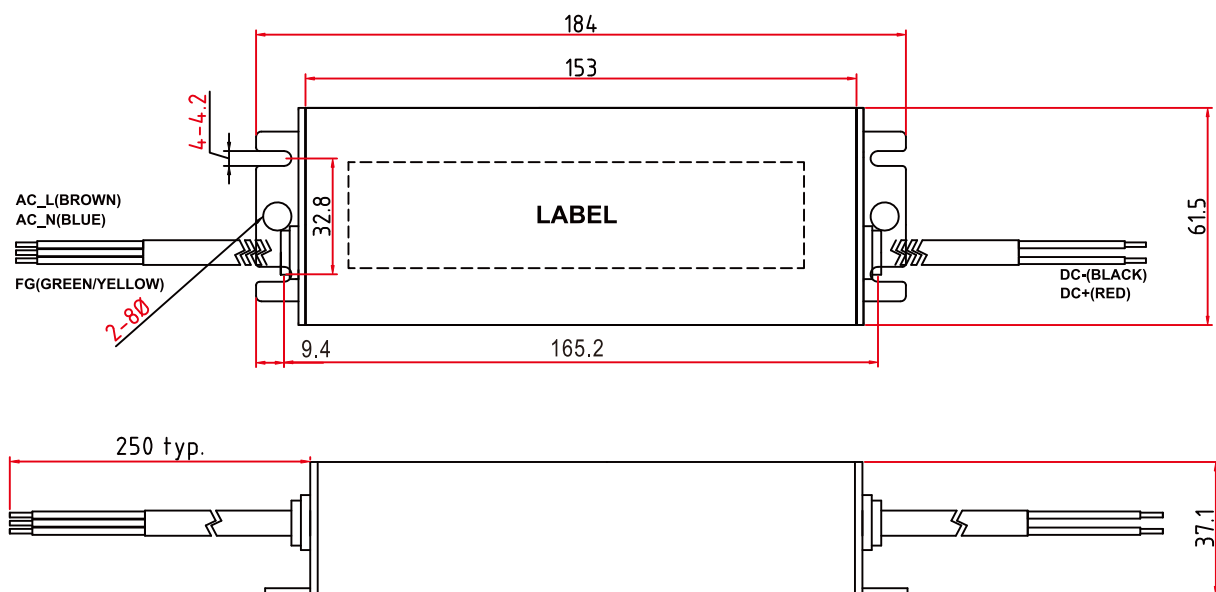
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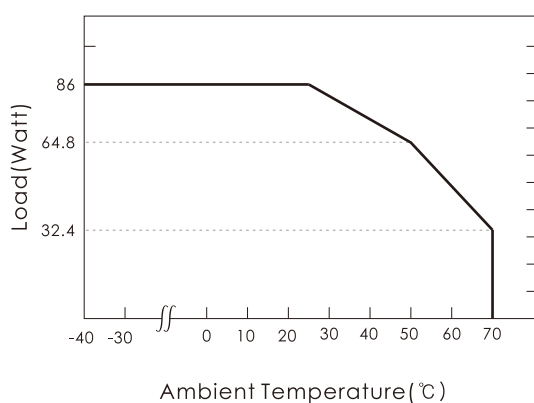
BLOCK DIAGRAM



DIMENSIONS(unit:mm)



DERATING CURVE



STATIC CHARACTERISTICS

