F150D90CQ2(D) Series

150W Dual output with c.c circuit and PFC function



- Constant current design
- Built-in PFC function
- Protections:Over current / Over voltage / Short circuit
- IP68 design for outdoor installations
- 100% full load burn-in test
- 3 in 1 dimming function(option:D type)
- Suitable for LED lighting and street & tunnel lighting applications
- Safety standards: K61347-2,1,K61347-2-13
- EMC standards: K00015, K61547, K61000-4-2, 3, 4, 5, 6, 11
- Metal case

UPF150D90CQD

: IP68 rated. Cable for I/O connection.

Output voltage and current level can be adjusted through internal potentiometer

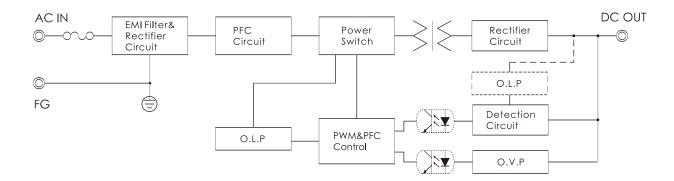
D(option): IP68 rated. Constant current level adjustable through output cable with 10V PWM signal or 1-10Vdc

or resistance

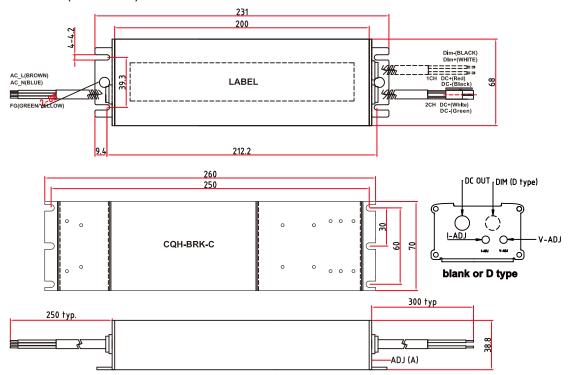
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			IP68 (P) (B) (S) (S)								
	ITEM	UPF150D90CQ2□									
INPUT	VOLTAGE RANGE	AC180									
	FREQUENCY RANGE	47~6	63Hz								
	POWER FACTOR	PF>0.95 at over 80	0% of rated power								
	EFFICIENCY(typ.)	92	2%								
	AC CURRENT(typ.)	0.7A/230	VAC(typ)								
	INRUSH CURRENT(typ.)	COLD START	COLD START 40A/230VAC								
	LEAKAGE CURRENT	<2.5mA / 230VAC									
	RATED CURRENT	1Ch	2Ch								
	KATED CORREIT	700mA	700mA								
	CURRENT ADJ. RANGE	450~700mA	450~700mA								
ОИТРИТ	CONSTANT CURRENT REGION	80-105V									
0011 01	RATED POWER	150W									
	CURRENT ACCURACY	±5%									
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load									
	HOLD UP TIME(typ.)	50ms/230VAC at full load									
	OVER CURRENT Note2	Over 95~108% of rating ; recovers automatically after fault condition is removed									
PROTEC -TION	SHORT CIRCUIT	Constant current recovers automatically after fault condition is removed									
	OVER VOLTAGE	110~140% of rating									
ISOLA	WITHSTAND VOLTAGE	I/P-O/P:AC3.75KV, I/P-F.G	:AC2KV, O/P-F.G:AC1.5KV								
-TION	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 10	00Mohms(At room temp. & humid.)								
	WORKING TEMP.&HUMID.	-40~+70°C (Refer to "DERATING CURVE),20~95%RH									
ENVIRON -MENT	STORAGE TEMP.&HUMID.	-40~+80℃,10~95%RH									
-/4/[[14]	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
OTHERS	DIMENSION/WEIGHT	231*68*38.8mm	u(L*W*H)/1.05Kg								
NOTE	All parameters not special Refer to "DRIVING METHODS	Ty mentioned are measured at 230Vac input, rated	l load and 25℃ of ambient temperature.								

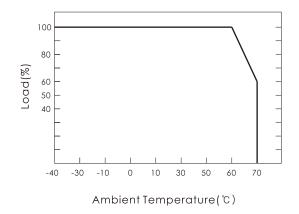
■ BLOCK DIAGRAM



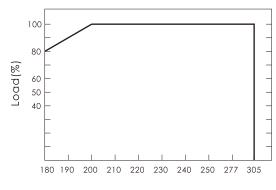
■ DIMENSIONS (unit:mm)



■ DERATING CURVE



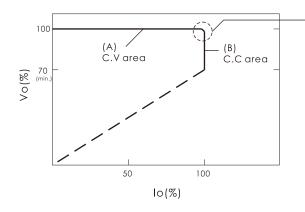
■ STATIC CHARACTERISTICS



Input Voltage(Vac), 60Hz

■ DRIVING METHODS of LED MODULE

- C.V.+C.C. characteristics can be operated at both C.V. mode(with LED driver, at area (A)) and C.C. mode(direct driver, at area(B))
- At the moment of power on, the LED converter will work in C.V. Mode and can be provide a peak output current; after the LED turns on, the LED converter will go into C.C. Mode(patern pending)



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

■ DIMMING OPERATION(option:D type)

- Built-in 3 in 1 dimming function.
 Output constant current level can be adjusted through output cable by connecting 10V PWM signal or 1-10Vdc or resistance between DIM+ and DIM-.
- Please do not connect 'DIM-' to 'V-'
- 10V PWM signal for output current adjustment(typ.): frequency range:100Hz~3KHz

Duty Value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Open
Percent of Rated Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%

1-10V dimming function for output current adjustment(typ.)

Dimming Value	1 V	2V	3V	4V	5V	6V	7V	8V	9V	10V	Open
Percent of Rated Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%

Reference resistance value for output current adjustment (typ.)

Resistance Value	Single driver	10ΚΩ	20ΚΩ	30 ΚΩ	40 ΚΩ	50KΩ	60KΩ	70ΚΩ	80ΚΩ	90KΩ	100ΚΩ	Open
	Multiple driver (N=driver quantity for synchronized dimming operation)	10KΩ /N	20KΩ /N	30KΩ /N	40KΩ /N	50KΩ /N	60KΩ /N	70KΩ /N	80KΩ /N	90KΩ /N	100KΩ /N	
Percent Rated C		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%