

S.M.P.S

LED Converter

Water Proof Converter

F200D120CQ2(D) Series

200W 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**

UPF200D120CQ□

Blank : 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

IP68    

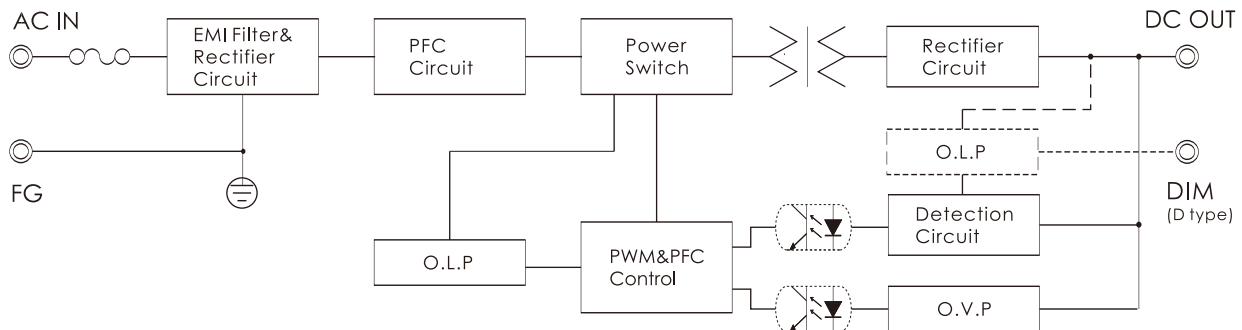
ITEM		UPF200D120CQ2□	
INPUT	VOLTAGE RANGE	AC180~305V	
	FREQUENCY RANGE	47~63Hz	
	POWER FACTOR	PF>0.95 at over 80% of rated power	
	EFFICIENCY(typ.)	92%	
	AC CURRENT(typ.)	0.93A/230VAC(typ)	
	INRUSH CURRENT(typ.)	COLD START 50A/230VAC	
	LEAKAGE CURRENT	<2.5mA / 230VAC	
OUTPUT	RATED CURRENT	1Ch	2Ch
		700mA	700mA
	CURRENT ADJ. RANGE	420~700mA	420~700mA
	CONSTANT CURRENT REGION	84-140V	
	RATED POWER	200W	
	CURRENT ACCURACY	±5%	
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load	
	HOLD UP TIME(typ.)	50ms/230VAC at full load	
PROTEC-TION	OVER CURRENT Note2	Over 95~108% of rating ; recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Constant current 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	241*68*38.8mm(L*W*H)/1.05Kg	
NOTE	1. All parameters not specially mentioned are measured at 230vac input, rated load and 25℃ of ambient temperature. 2. Refer to "DRIVING METHODS of LED MODULE"		

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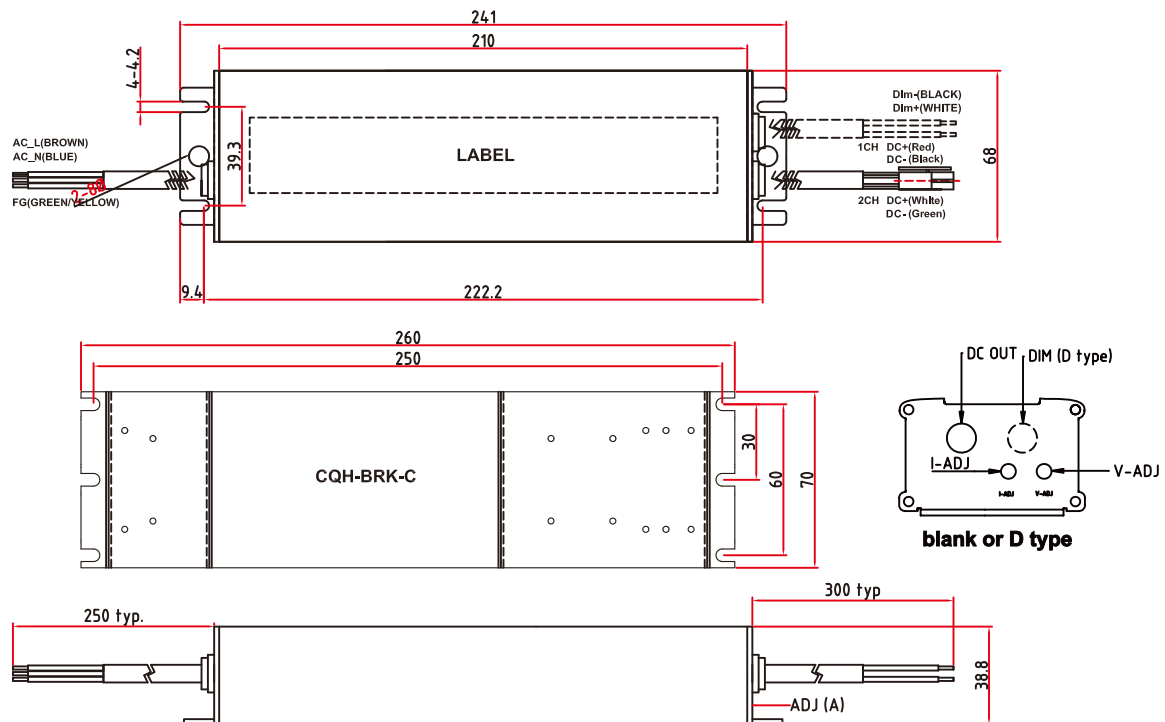
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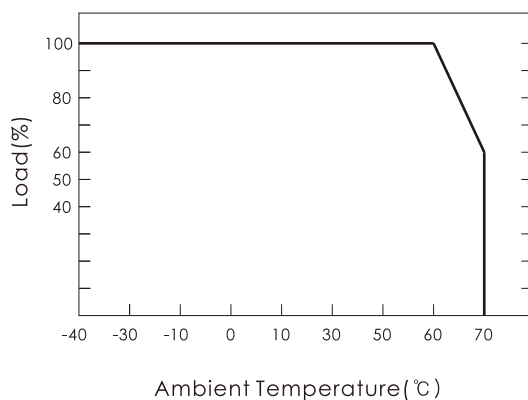
BLOCK DIAGRAM



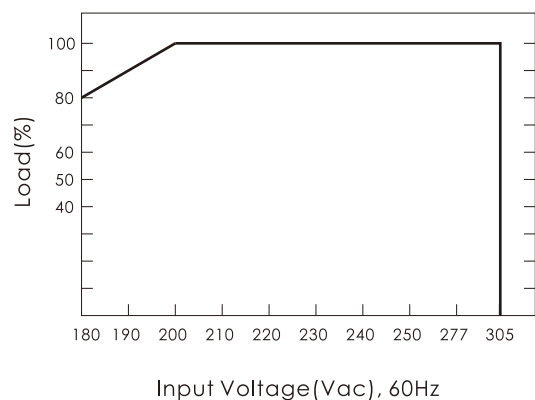
DIMENSIONS(unit:mm)



DERATING CURVE

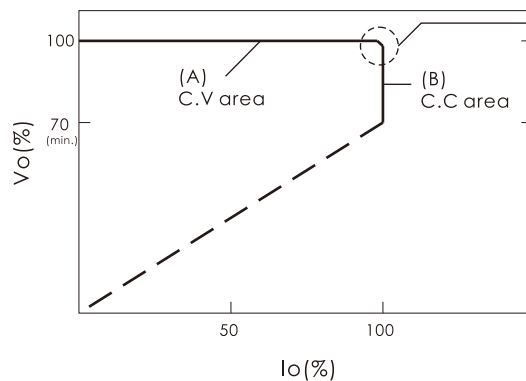


STATIC CHARACTERISTICS



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(pattern 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	1V	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	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	Open
	Multiple driver (N=driver quantity for synchronized dimming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	---
Percent of Rated Current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%