F200CQH Series

200W single output with c.v+c.c circuit and PFC function



- Constant voltage or current design(C.V+C.C. Mode)
- Built-in PFC function Wide input range
- Protections:Over current /Over voltage / Short circuit/Over temperature
- 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 lighting applications
- Safety standards : EN61347-1,EN61347-2-13 K61347-1,K61347-2-13,J61347-1,J61347-2-13
- EMC standards: EN55015,EN61000-3-2,3 EN61547,K00015,K61547,J55015
- Metal case

UPF200S36CQHD

Blank: IP68 rated. Cable for I/O connection.

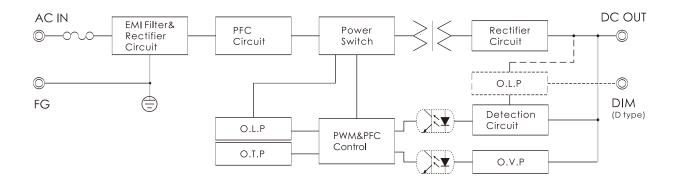
Output voltage and current level can be adjusted through internal potentiometer

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

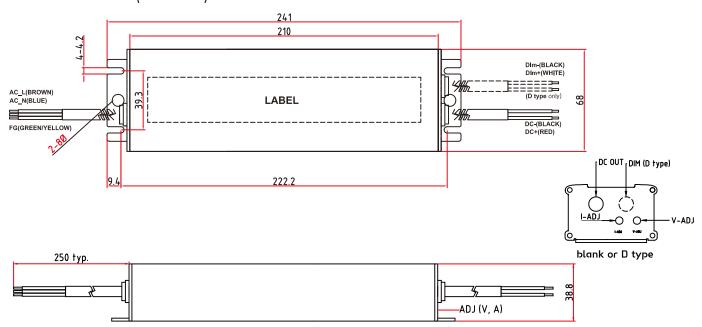
or resistance

	ITEM	UPF200\$36CQH	UPF200S48CQH□								
	VOLTAGE RANGE	AC180~305V									
INPUT	FREQUENCY RANGE	47~63Hz									
	POWER FACTOR	PF>0.95 at over	60% of rated power								
	EFFICIENCY(typ.)	92%	92%								
	AC CURRENT(typ.)	1.0	5A								
	INRUSH CURRENT(typ.)	COLD START	40A/230VAC								
	LEAKAGE CURRENT	<2.5mA / 230VAC									
	RATED CURRENT	5.6A	4.2A								
	CONSTANT CURRENT REGION	18-36V	24-48V								
	RATED POWER	200W									
	VOLTAGE ADJ. RANGE	32~40V	43~53V								
OUTPUT	CURRENT ADJ. RANGE	4~5.9A	2.2~4.4A								
	CURRENT ACCURACY	±5%									
	RIPPLE&NOISE(max.) Note2	150mVp-p									
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load									
	HOLD UP TIME(typ.)	50ms/230VAC at full load									
	OVER CURRENT Note3	95~108%									
PROTEC	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed									
-TION	OVER VOLTAGE	115~140% of rating									
	OVER TEMPERATURE	100~105±10°C(temp. Sensor); recovers automatically after fault condition is removed									
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 100Mohms(At room temp. & humid.)									
=	WORKING TEMP.&HUMID.	-40~+70℃ (Refer to "DERATING CURVE),20~95%RH									
ENVIRON -MENT	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*38.8	3/1.07Kg								
NOTE		ly mentioned are measured at 220Vac input, rated of at 20MHz of bandwidth by using a 12" twisted proceed the company of LED MODULE"	·								

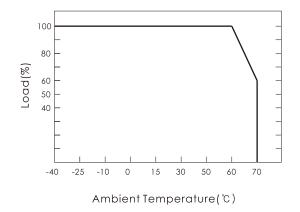
■ BLOCK DIAGRAM



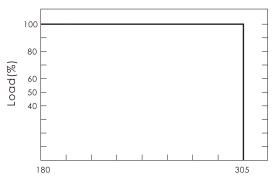
■ DIMENSIONS (unit:mm)



■ DERATING CURVE



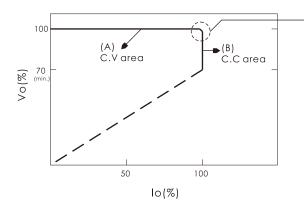
■ STATIC CHARACTERISTICS



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	90 ΚΩ	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 of Rated Current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%