F200CQ2 Series

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



- Constant current design(12V:Constant voltage)
- 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 lighting applications
- Safety standards: K61347-2-1,K61347-2-13, EN61347-1,EN61347-2-13
- EMC standards: K00015, K61547, K61000-3-2,3, EN55015
- Metal case

UPF200S48CQ2D

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

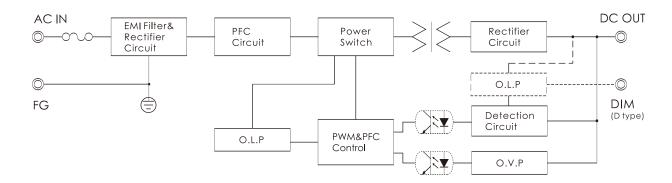
Output voltage and current level can be adjusted through internal potentiometer

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

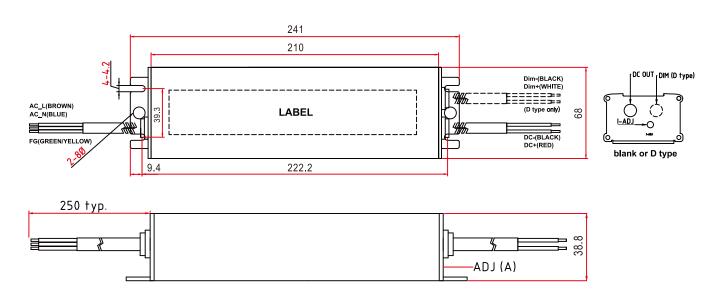
orresistance

		IP68	SELV	V LPS P						
	ITEM	UPF200S12CQ2	UPF200S12CQ2							
	VOLTAGE RANGE	AC90~	-305V(refer to static characte	ristics)						
	FREQUENCY RANGE		47~63Hz							
	POWER FACTOR	PF	>0.95 at over 60% of rated p	ower						
INPUT	EFFICIENCY(typ.)	89%	92%	92%						
	AC CURRENT(typ.)		1.0A/230VAC(typ)							
	INRUSH CURRENT(typ.)		50A/230VAC							
	LEAKAGE CURRENT	<2.5mA / 230VAC								
	RATED CURRENT	16A	5.6A	4.2A						
	CONSTANT CURRENT REGION	-	22-36V	30-48V						
	RATED POWER	144W at 100-160VAC , 192W at 160-305VAC	150W at 100-160VAC	, 200W at 160-305VAC						
OUTPUT	CURRENT ADJ. RANGE	-	4~5.6A	1.95~4.2A						
Oulful	CURRENT ACCURACY	±5%								
	RIPPLE&NOISE(max.) Note2	150mVp-p								
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load								
	HOLD UP TIME(typ.)	10ms/230VAC at full load								
	OVER CURRENT Note3	12V : Over 110% of rating ; recovers automatically after fault condition is removed 36,48V : 95~108%								
PROTEC -TION	SHORT CIRCUIT	Hiccup mode ; 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 100Mohms(At room temp. & humid.)								
	WORKING TEMP.&HUMID.	-40~+70°C (Refer to "DERATING CURVE),20~95%RH								
ENVIRON -MENT	STORAGE TEMP.&HUMID.	-40~+80°C,10~95%RH								
	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
OTHERS	RS DIMENSION/WEIGHT 241*68*38.8mm(L*W*H)/1.07Kg									
NOTE	 All parameters not specially mentioned are measured at 230vac input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor. Refer to "DRIVING METHODS of LED MODULE" 									

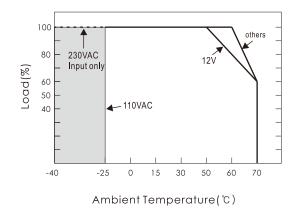
■ BLOCK DIAGRAM



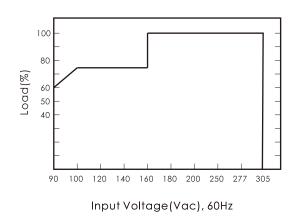
■ DIMENSIONS (unit:mm)



■ DERATING CURVE

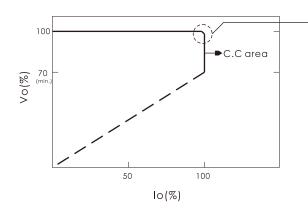


■ STATIC CHARACTERISTICS



■ 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.

■ 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	60 ΚΩ	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%