F240CQ2 Series

240W 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

UPF240S48CQ2D

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

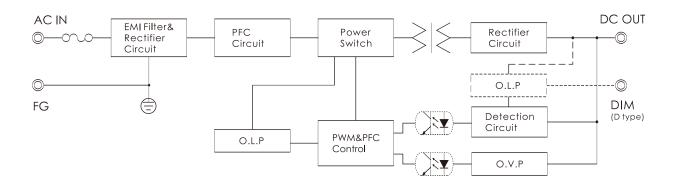
Output voltage and current level can be adjusted through internal potentiometer

D(option): IP68 rated. Constant current level adjustable through output cable with 10V PWM signal or 0-10Vdc

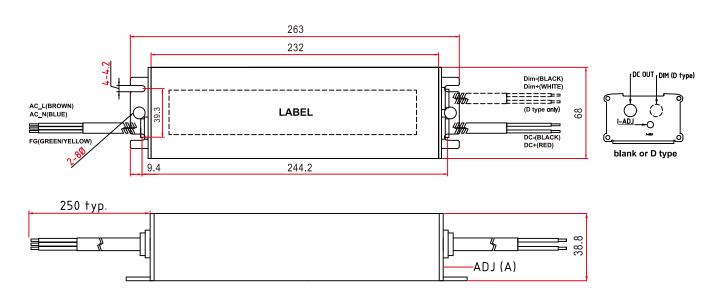
orresistance

	1754	LIDEO AOS 10 COO		SELV LPS P. & &					
			UPF240\$36CQ2	UPF240S48CQ2					
		ACTOL	~305V(refer to static characte	ensucs)					
	-		47~63Hz						
			F>0.95 at over 60% of rated p						
INPUT	· · · · ·	89%	92%	92%					
	() , ,	1.2A/230VAC(typ)	<u> </u>	OVAC(typ)					
AC CURRENT(typ.) INRUSH CURRENT RATED CURRENT RATED CURRENT CONSTANT CURRENT REGION RATED POWER CURRENT ADJ. RANGE CURRENT ACCURACY RIPPLE&NOISE(max.) Note2 SETUP,RISE TIME(max.) HOLD UP TIME(typ.) OVER CURRENT Note3 SHORT CIRCUIT OVER VOLTAGE ISOLA -TION FOR TORE WITHSTAND VOLTAGE ISOLATION RESISTANCE WORKING TEMP.&HUMID. STORAGE TEMP.&HUMID. VIBRATION OTHERS DIMENSION/WEIGHT 1. All parameters not specially mentioned are parallel capacitor.		50A/230VAC							
			<2.5mA / 230VAC						
		18.75A	6.7A	5A					
			22-36V	30-48V					
	RATED POWER	225W	_	40W					
OUTPUT	CURRENT ADJ. RANGE	-	3.5~6.7A	2.9~5A					
	CURRENT ACCURACY	±5%							
	RIPPLE&NOISE(max.) Note2	200mVp-p							
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load							
	HOLD UP TIME(typ.)		10ms/230VAC at full load						
DDOTEC	OVER CURRENT Note3	12V : Over 110% of rating ; recovers automatically after fault condition is removed 36,48V : 95~108%							
	SHORT CIRCUIT	Hiccup mode ; reco	overs automatically after fault	condition is removed					
	OVER VOLTAGE		110~140% of rating						
ISOLA	WITHSTAND VOLTAGE	I/P-O/P:AC	3.75KV, 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 ro	om temp. & humid.)					
	WORKING TEMP.&HUMID.	-40~+70°C (Refer to "DERATING CURVE),20~95%RH							
	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	DIMENSION/WEIGHT	263*68*38.8mm(L*W*H)/1.15Kg							
NOTE	2. Ripple & noise are measured	d at 20MHz of bandwidth by usir							

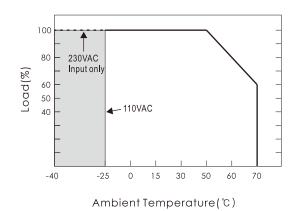
■ BLOCK DIAGRAM



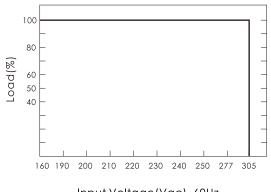
■ DIMENSIONS (unit:mm)



■ DERATING CURVE



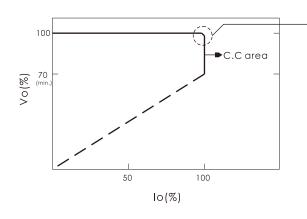
■ STATIC CHARACTERISTICS



Input Voltage(Vac), 60Hz

■ DRIVING METHODS of LED MODULE

This series works in constant current mode to directly drive the LEDs

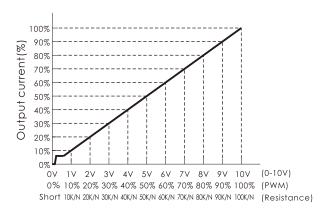


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the systems.

■ 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 0-10Vdc or resistance between DIM+ and DIM-.
- Please do not connect 'DIM-' to 'V-'

■ DIMMING CURVE



● 10V PWM signal for output current adjustment(typ.): frequency range:100Hz~3KHz

Duty Value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Open
Percent of Rated Current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%

• 0-10V dimming function for output current adjustment(typ.)

Dimming Value	0٧	1 V	2V	3V	4V	5V	6V	7٧	8V	9٧	10٧	Open
Percent of Rated Current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%

Reference resistance value for output current adjustment (typ.)

Resistance	Single driver	Short	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60 ΚΩ	70ΚΩ	80ΚΩ	9 0KΩ	100ΚΩ	Open
Value	Multiple driver (N=driver quantity for synchronized dimming operation)	Short	10KΩ /N	20KΩ /N	30KΩ /N	40KΩ /N	50KΩ /N	60KΩ /N	70KΩ /N	80KΩ /N	90KΩ /N	100KΩ /N	
Percent of Rated Current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95~108%