

S.M.P.S

LED Converter

Water Proof Converter

F30CQH Series

30W single output with c.c circuit
and PFC function



- **Constant current design(C.C. mode)**
- 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 : 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

UPF30S36CQH□

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     SELV    CB CE

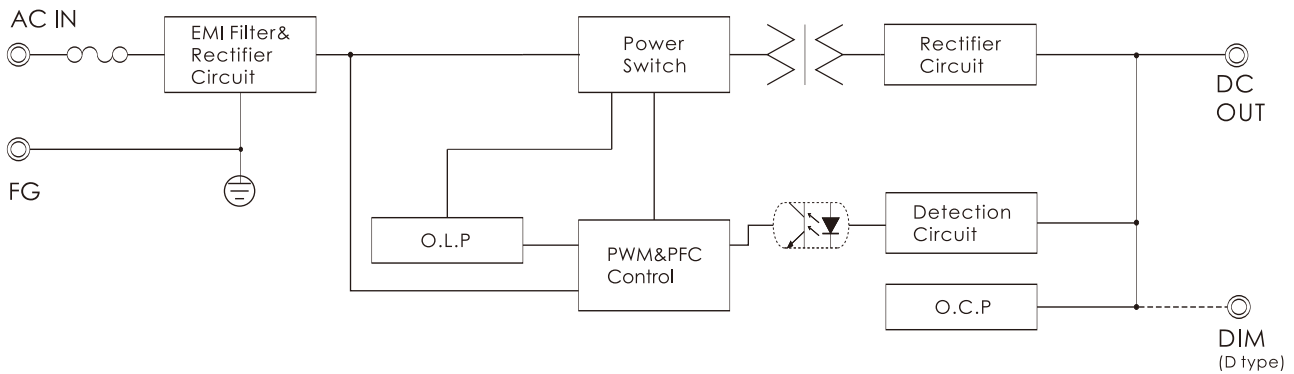
ITEM		UPF30S36CQH□	UPF30S48CQH□
INPUT	VOLTAGE RANGE	AC180~264V	
	FREQUENCY RANGE	47~63Hz	
	POWER FACTOR	PF>0.9 at over 60% of rated power	
	EFFICIENCY(typ.)	85%	86%
	AC CURRENT(typ.)	0.16A/230VAC (typ)	
	INRUSH CURRENT(typ.)	COLD START 5A/230VAC	
	LEAKAGE CURRENT	<2.5mA / 230VAC	
OUTPUT	RATED CURRENT	0.8A	0.65A
	CONSTANT CURRENT REGION	26-36V	36-48V
	RATED POWER	30W	
	VOLTAGE ADJ. RANGE	32~40V	42~53V
	CURRENT ADJ. RANGE	0.5~1.0A	0.4~0.7A
	CURRENT ACCURACY	±5%	
	RIPPLE&NOISE(max.) Note2	2.0Vp-p	2.0Vp-p
PROTEC-TION	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load	
	OVER CURRENT Note3	95~108%	
ISOLA-TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed	
	WITHSTAND VOLTAGE	I/P-O/P:AC3.75KV, I/P-F.G:AC2KV, O/P-F.G:AC1.5KV	
ENVIRON-MENT	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	
OTHERS	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	174*61.5*36.8mm(L*W*H)/0.66Kg	
NOTE	1. All parameters not specially mentioned are measured at 220vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHZ of bandwidth by using a 12” twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor. 3. Refer to “DRIVING METHODS of LED MODULE”		

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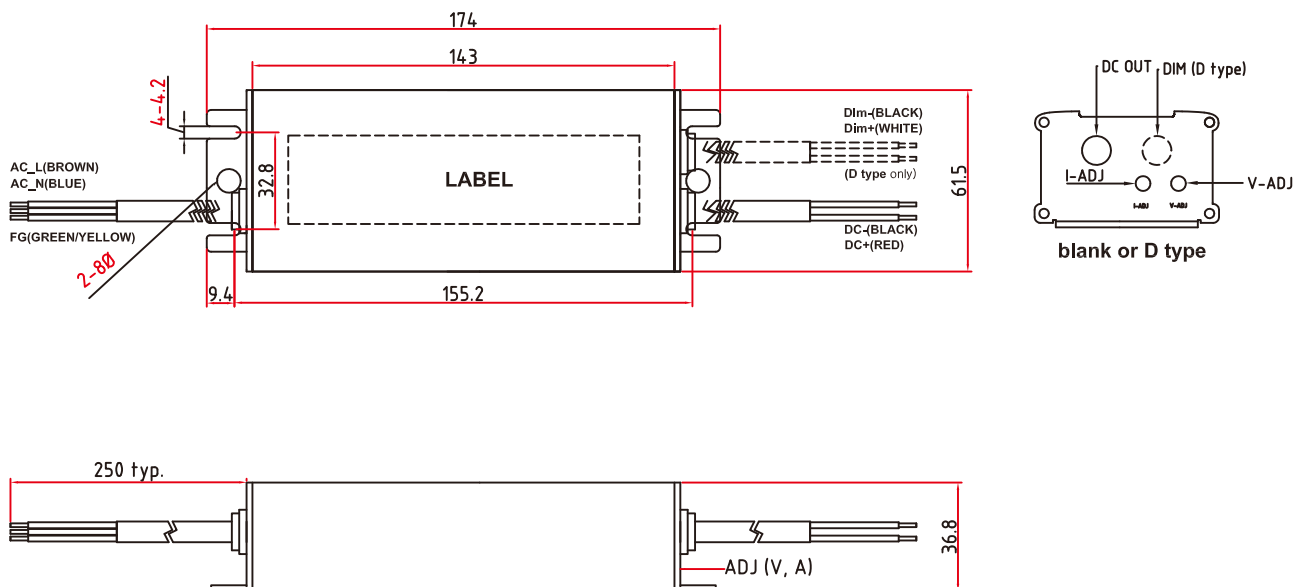
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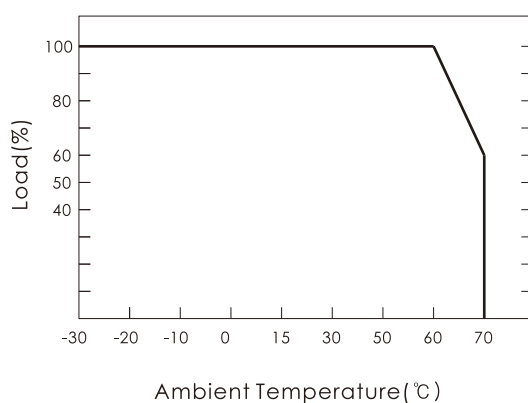
BLOCK DIAGRAM



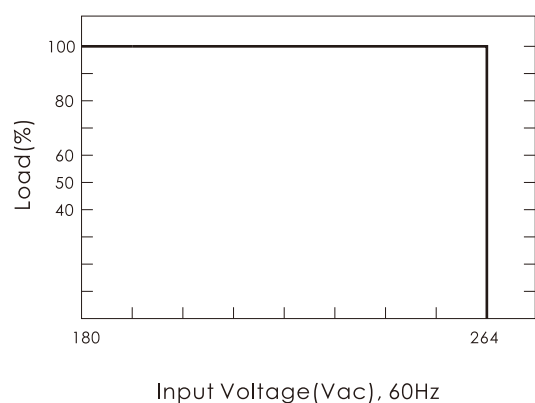
DIMENSIONS(unit:mm)



DERATING CURVE



STATIC CHARACTERISTICS



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■ 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%