F30CQHD-EX Series

25W single output with c.c circuit and PFC function

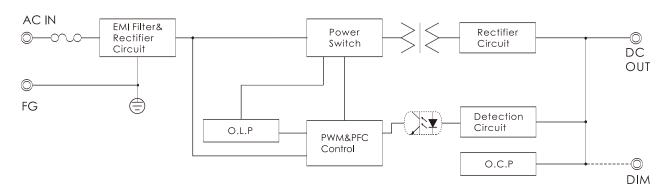


- Constant current design(C.C. mode)
- Built-in PFC function
- Protections: Over current / Over voltage / Short circuit
- IP68 design for outdoor installations
- 100% full load burn-in test
- 3 in 1 dimming function
- Suitable for LED lighting and street lighting applications
- Safety standards : K61347-1,K61347-2-13 J61347-1,61347-2-13
- EMC standards: K00015, K61547/J55015
- Metal case

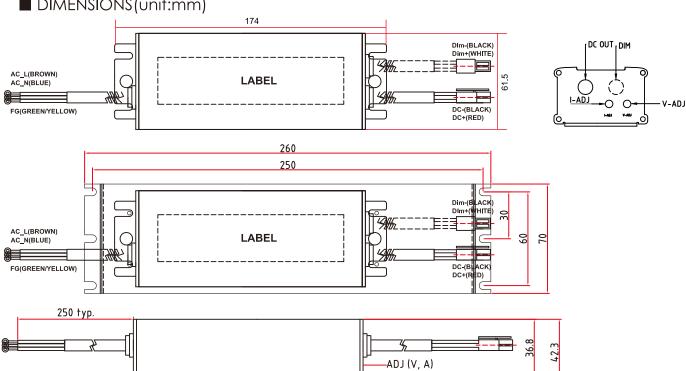
IP68 → F W W SELV P & CB (€

	ITEM	UPF30S36CQHD-EX							
	VOLTAGE RANGE	AC180~264V							
INPUT	FREQUENCY RANGE	47~63Hz							
	POWER FACTOR	PF>0.9 at over 60% of rated power							
	EFFICIENCY(typ.)	85%							
	AC CURRENT(typ.)	0.14A/230VAC (typ)							
	INRUSH CURRENT(typ.)	COLD START 5A/230VAC							
	LEAKAGE CURRENT	<2.5mA / 230VAC							
	RATED CURRENT	0.7A							
	CONSTANT CURRENT REGION	26-36V							
	RATED POWER	25W							
OUTPUT	VOLTAGE ADJ. RANGE	32~40V							
501101	CURRENT ADJ. RANGE	0.5~1.0A							
	CURRENT ACCURACY	±5%							
	RIPPLE&NOISE(max.) Note2	2.0Vp-p							
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load							
PROTEC	OVER CURRENT Note3	95~108%							
TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed							
SOLA	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							
NVIRON MENT	STORAGE TEMP.&HUMID.	-40~+80℃,10~95%RH							
	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	DIMENSION/WEIGHT	174*61.5*36.8mm(L*W*H)/0.66Kg							

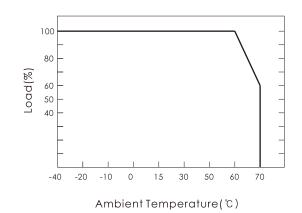
■ BLOCK DIAGRAM



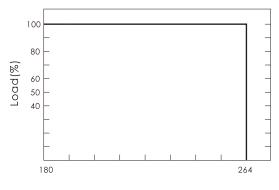
■ DIMENSIONS (unit:mm)



■ DERATING CURVE



■ STATIC CHARACTERISTICS



Input Voltage(Vac), 60Hz

■ DIMMING OPERATION

- 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	1٧	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	30KΩ	40ΚΩ	50ΚΩ	60 ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	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%