

S.M.P.S

LED Converter

Water Proof Converter

## F75CH2D-EX Series

75W single output with C.C circuit  
and PFC function



- **Constant current design(C.C. mode)**
- Built-in PFC function
- Protections: Over current / 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 : K61347-2-1, K61347-2-13
- EMC standards : K00015, K61547, K61000-3-2,3
- Metal case
- 5years warranty

IP68     SELV LPS   

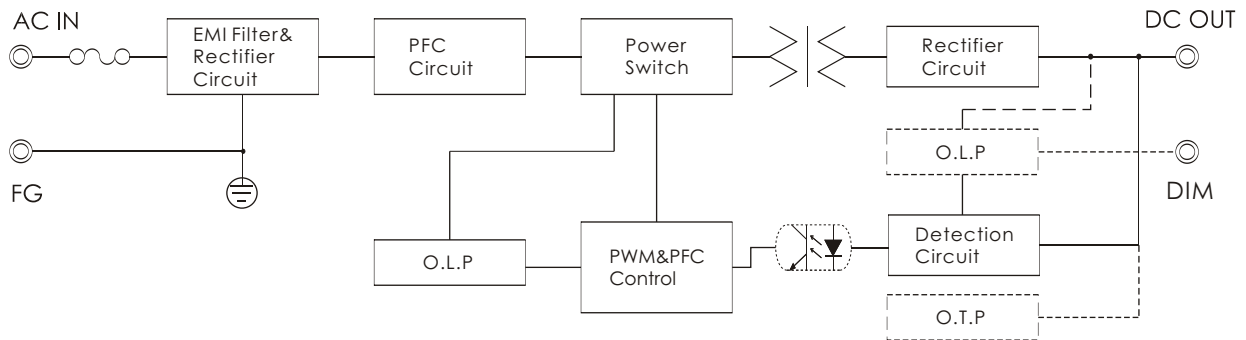
ITEM		UPF75S30CH2D-EX
INPUT	VOLTAGE RANGE	AC180~264V
	FREQUENCY RANGE	47~63Hz
	POWER FACTOR	PF>0.95 at full load
	EFFICIENCY(typ.)	90%
	AC CURRENT(typ.)	0.31A/230VAC
	INRUSH CURRENT(typ.)	40A/230VAC
	LEAKAGE CURRENT	<2.5mA / 230VAC
OUTPUT	RATED CURRENT	2.1A
	CONSTANT CURRENT REGION	24-30V
	RATED POWER	60W
	CURRENT ADJ. RANGE	1.6~2.1A
	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
PROTEC-TION	OVER CURRENT Note3	95~108%
	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed
ISOLA-TION	WITHSTAND VOLTAGE	I/P-O/P:AC3KV, I/P-F.G:AC1.5KV, O/P-F.G:AC0.5KV
	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 100Mohms(At room temp. & humid.)
ENVIRON-MENT	WORKING TEMP.&HUMID.	-40~+70℃ (Refer to "DERATING CURVE),20~95%RH
	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	192*55.5*37.3mm(L*W*H)/0.64Kg
NOTE	<p>1. All parameters not specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1 uF &amp; 47uF parallel capacitor.</p> <p>3. Refer to "DRIVING METHODS of LED MODULE"</p>	

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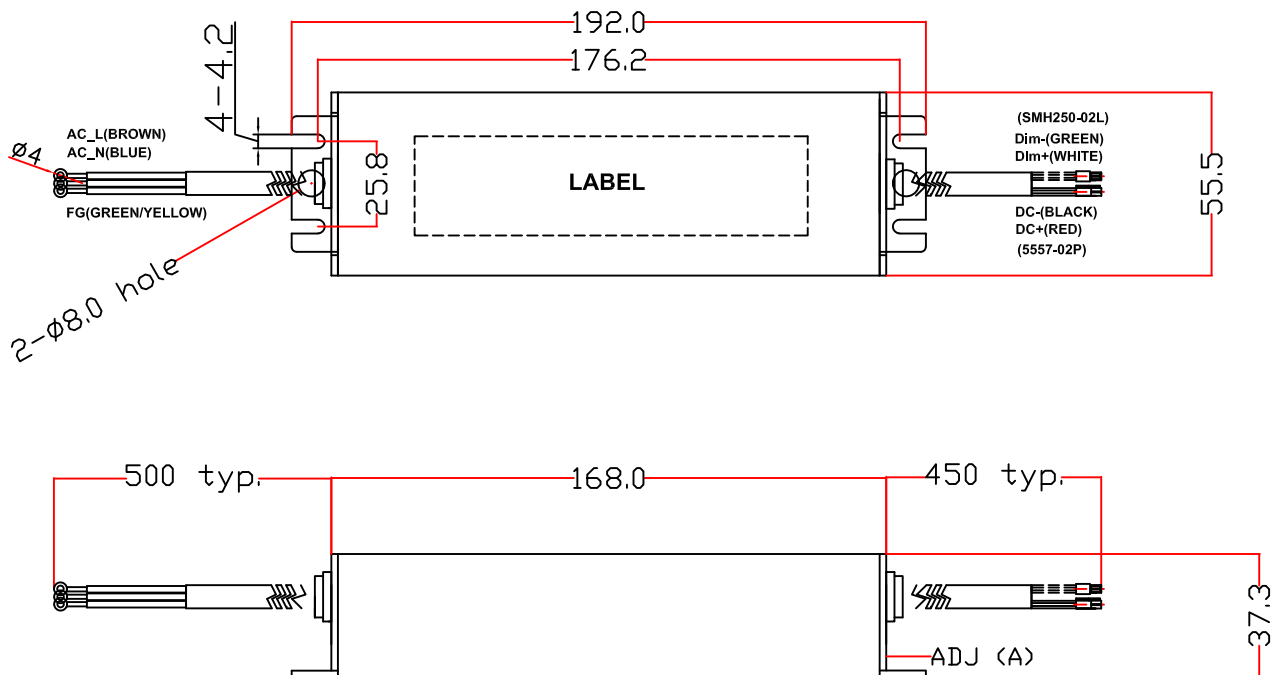
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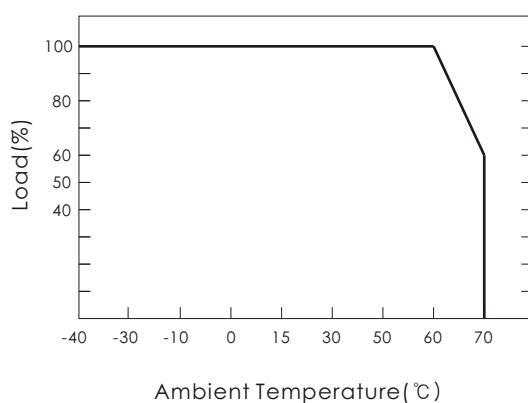
## BLOCK DIAGRAM



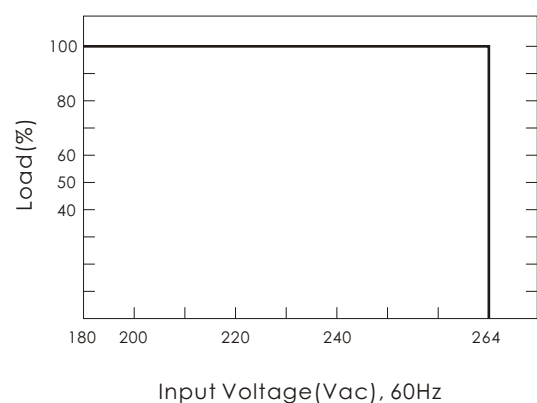
## DIMENSIONS(unit:mm)



## DERATING CURVE



## STATIC CHARACTERISTICS



## ■ 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	5~20%	15~25%	25~35%	35~45%	45~55%	55~65%	65~75%	75~85%	85~95%	95~105%	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	5~20%	15~25%	25~35%	35~45%	45~55%	55~65%	65~75%	75~85%	85~95%	95~105%	95~108%

### ● Reference resistance value for output current adjustment (typ.)

Resistance Value	Single driver	10K $\Omega$	20K $\Omega$	30K $\Omega$	40K $\Omega$	50K $\Omega$	60K $\Omega$	70K $\Omega$	80K $\Omega$	90K $\Omega$	100K $\Omega$	Open
	Multiple driver (N=driver quantity for synchronized dimming operation)	10K $\Omega$ /N	20K $\Omega$ /N	30K $\Omega$ /N	40K $\Omega$ /N	50K $\Omega$ /N	60K $\Omega$ /N	70K $\Omega$ /N	80K $\Omega$ /N	90K $\Omega$ /N	100K $\Omega$ /N	---
Percent of Rated Current		5~20%	15~25%	25~35%	35~45%	45~55%	55~65%	65~75%	75~85%	85~95%	95~105%	95~108%