IP68 → ▼ ▼ SELV P. [3

F500CP2 Series

500W single output with c.c circuit and PFC function



- Constant current design
- Built-in PFC function
- Protections: Over current / Short circuit
- IP68 design for outdoor installations
- 3 in 1 dimming function(option:D type)
- Suitable for LED lighting and street lighting applications
- Safety standards: K61347-2-1, K61347-2-13,
- EMC standards: K00015, K61547
- Metal case

UPF500S48CP2D

: IP68 rated. Cable for I/O connection.

3. Refer to "DRIVING METHODS of LED MODULE"

4. Turn on the AC switch after connecting the driver and the LED load $\,$

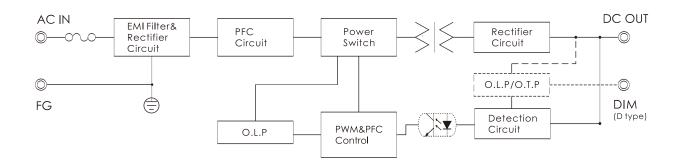
Output current level can be adjusted through internal potentiometer

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

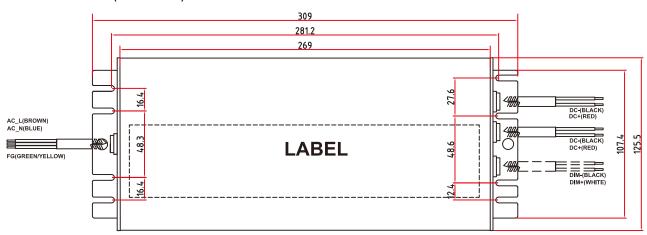
or resistance

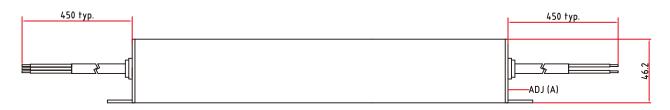
	ITEM	UPF500S48CP2 □							
	VOLTAGE RANGE	AC180~264V							
NPUT	FREQUENCY RANGE	47~63Hz							
	POWER FACTOR	PF>0.95 at over 75% of rated power							
	EFFICIENCY(typ.)	93.5%							
	AC CURRENT(typ.)	2.35A/220VAC(typ)							
	INRUSH CURRENT(typ.)	65A/220VAC							
	LEAKAGE CURRENT	<2.5mA / 220VAC							
	RATED CURRENT	9.8A							
	CONSTANT CURRENT REGION	42-48V							
	RATED POWER	470W							
OUTPUT	CURRENT ADJ. RANGE	8.8~10.8A							
	CURRENT ACCURACY	±5%							
	RIPPLE&NOISE(max.) Note2	850mVp-p							
	SETUP,RISE TIME(max.)	3000ms,100ms/220VAC at full load							
PROTEC	OVER CURRENT Note3	Over 95~108% of rating							
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:AC0.5KV							
TION	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 100Mohms(At room temp. & humid.)							
	WORKING TEMP.&HUMID.	-30~+50℃ (Refer to "DERATING CURVE),20~95%RH							
NVIRON MENT	STORAGE TEMP.&HUMID.	-40~+80℃,10~95%RH							
-MENI	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	DIMENSION/WEIGHT	309*125.5*46.2mm(L*W*H)/2.9Ka							

■ BLOCK DIAGRAM

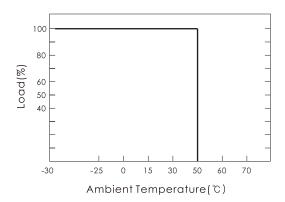


■ DIMENSIONS(unit:mm)

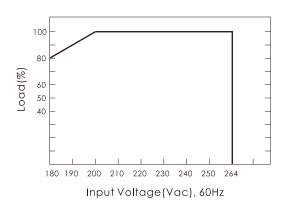




■ DERATING CURVE

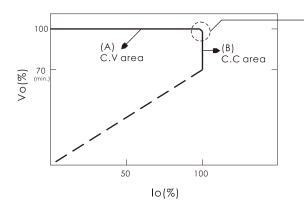


■ STATIC CHARACTERISTICS



■ DRIVING METHODS of LED MODULE

- C.V.+C.C. characteristics can be operated at both C.V. mode(with LED driver, at area (A)) and C.C. mode(direct driver, at area(B))
- At the moment of power on, the LED converter will work in C.V. Mode and can be provide a peak output current; after the LED turns on, the LED converter will go into C.C. Mode(patern pending)



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	60KΩ	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%