

S.M.P.S

LED Converter

Water Proof Converter

## 500W2L Series

500W single output  
with constant voltage circuit



- **Constant voltage design(C.V. mode)**
- AC Input voltage 180-264V
- **Protections:**  
Over load /Short circuit/Over temperature
- IP68 design for outdoor installations
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- **Metal case**
- Safety standards :K61347-1,K61347-2-13
- EMC standards : K00015,K61547
- 2years warranty

IP68     SELV 

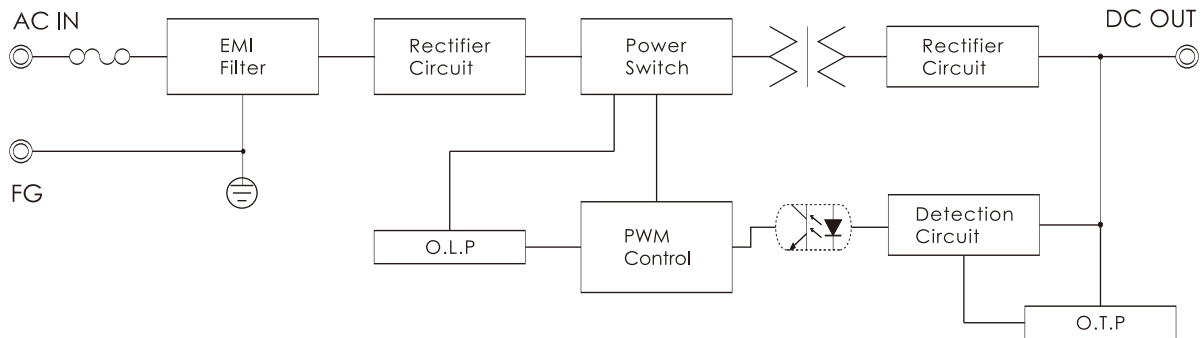
ITEM		UP500S12W2L	UP500S24W2L
INPUT	VOLTAGE RANGE	AC180~264V	
	FREQUENCY RANGE	47~63Hz	
	EFFICIENCY(typ.)	92%	93%
	AC CURRENT(typ.)	4.45A/220VAC	
	INRUSH CURRENT(typ.)	COLD START 60A/220VAC	
	LEAKAGE CURRENT	<2mA / 220VAC	
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	37.5A(31A@50℃)	18.7A(15.5A@50℃)
	RATED POWER	450W	
	RIPPLE&NOISE(max.) <small>Note2</small>	1000mVp-p	
	VOLTAGE TOLERANCE <small>Note3</small>	±3%	
	LINE REGULATION <small>Note4</small>	±1%	
	LOAD REGULATION <small>Note5</small>	±2%	
	SETUP,RISE TIME(max.)	3000ms,100ms/220VAC at full load	
HOLD UP TIME(typ.)	5ms/220VAC at full load		
PROTEC-TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed	
	OVER LOAD	Over 110% of rating ; recovers automatically after fault condition is removed	
	OVER TEMPERATURE	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~+75℃,10~95%RH	
	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
OTHERS	DIMENSION	257*74*49mm(L*W*H)/1.54kg	
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. Tolerance : includes set up tolrance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from low 0% to 100% rated load.		

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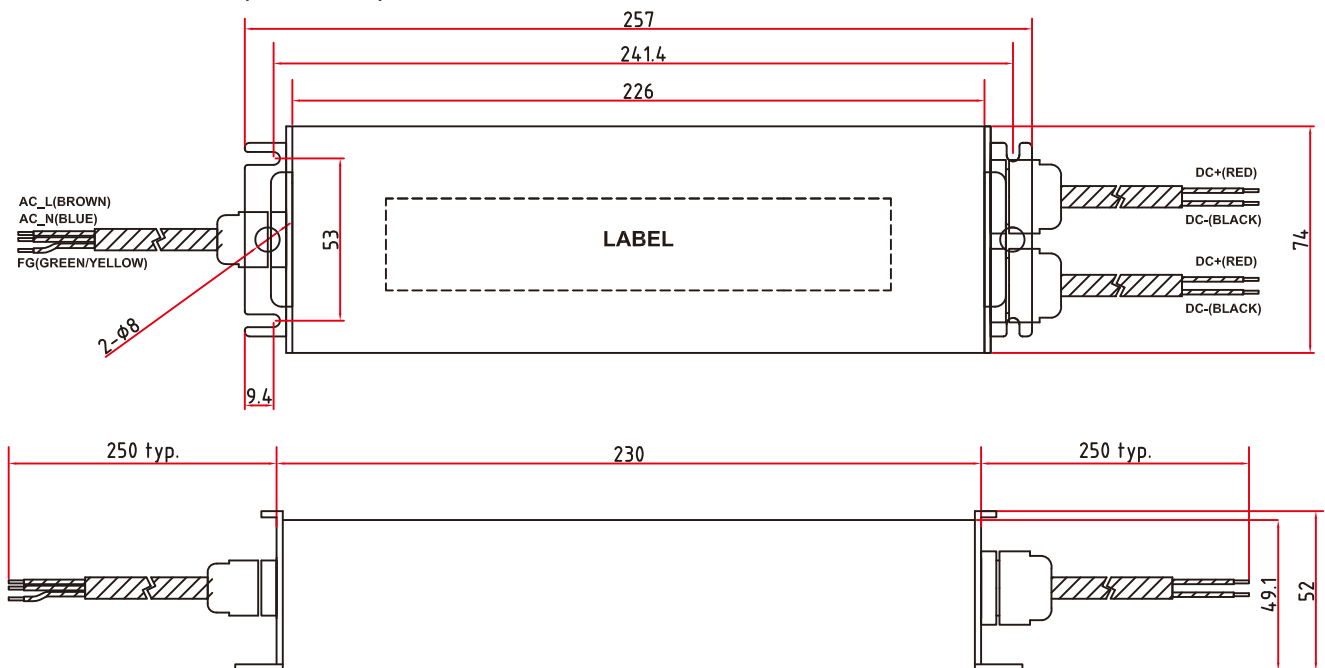
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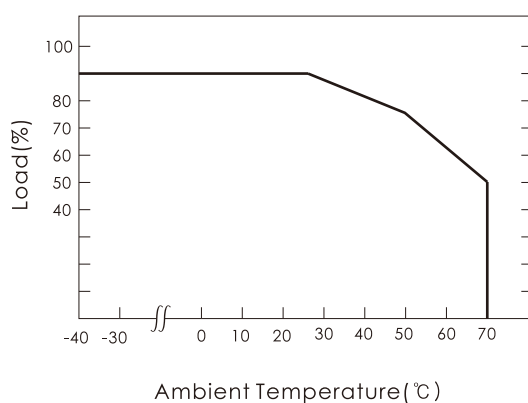
## BLOCK DIAGRAM



## DIMENSIONS(unit:mm)



## DERATING CURVE



## STATIC CHARACTERISTICS

