

S.M.P.S

LED Converter

Water Proof Converter

60WQ Series

60W single output
with constant voltage circuit



- **Constant voltage design**
- **Wide input voltage range**
- **Protections:**
 - Over load/Over voltage /Short circuit
- **IP68 design for outdoor installations**
- **100% full load burn-in test**
- **Suitable for LED lighting and moving sign applications**
- **Plastic case**
- **Safety standards : EN61347-1,EN61347-2-13**
- **EMC standards : EN55022,EN610204-3, EN61000-3-2,3**
- **3years warranty**

IP68



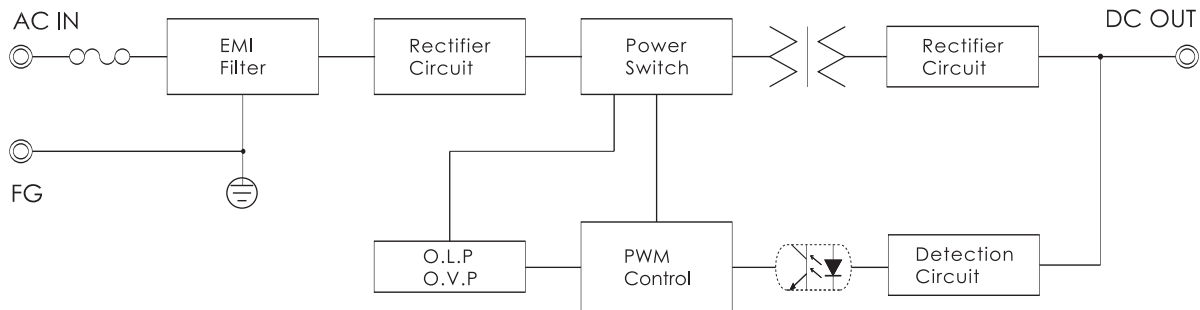
ITEM		UP60S12WQ	UP60S24WQ
INPUT	VOLTAGE RANGE	AC90~277V	
	FREQUENCY RANGE	47~63Hz	
	EFFICIENCY(typ.)	84%	85%
	AC CURRENT(typ.)	0.9A/115VAC(typ) 0.5A/230VAC(typ)	
	INRUSH CURRENT(typ.)	COLD START 60A/230VAC	
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	5A	2.5A
	RATED POWER	60W	
	RIPPLE&NOISE(max.) Note2	170mVp-p	
	VOLTAGE TOLERANCE Note3	±3%	
	LINE REGULATION Note4	±1%	
	LOAD REGULATION Note5	±2%	
	SETUP,RISE TIME(max.)	3000ms,100ms/115VAC 3000ms,100ms/230VAC at full load	
PROTEC-TION	HOLD UP TIME(typ.)	10ms/115VAC 60ms/230VAC at full load	
	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed	
	OVERLOAD	Over 110% of rating ; recovers automatically after fault condition is removed	
ISOLA-TION	OVER VOLTAGE	115~140% of rating	
	WITHSTAND VOLTAGE	I/P-O/P:AC3KV	
ENVIRON-MENT	ISOLATION RESISTANCE	I/P-O/P:DC500V 100Mohms(At room temp. & humid.)	
	WORKING TEMP.&HUMID.	-40~+70℃ (Refer to "DERATING CURVE"),20~95%RH	
	STORAGE TEMP.&HUMID.	-40~+75℃,10~95%RH	
OTHERS	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
	DIMENSION/WEIGHT	170.5*42*35mm(L*W*H)/0.35Kg	
NOTE		<p>1. All parameters not specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from low 0% to 100% rated load.</p>	

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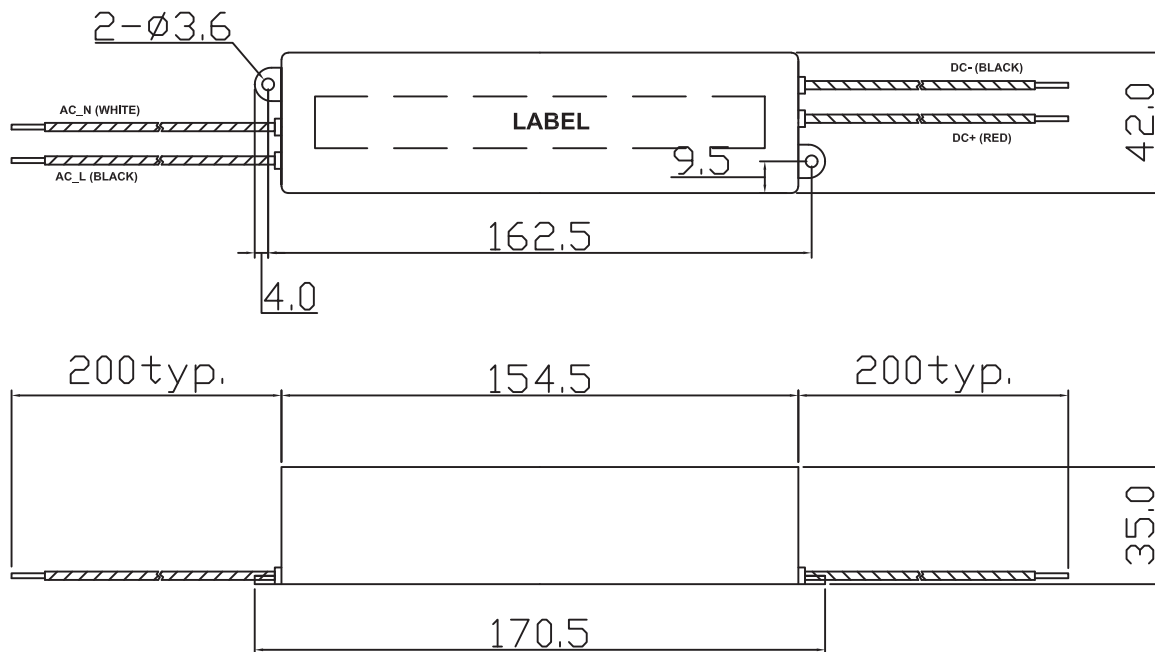
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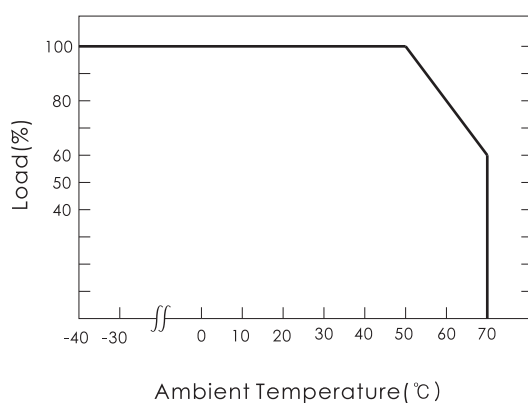
BLOCK DIAGRAM



DIMENSIONS(unit:mm)



DERATING CURVE



STATIC CHARACTERISTICS

