

S.M.P.S

LED Converter

Water Proof Converter

40WQ Series

40W 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,EN61204-3, EN61000-3-2,3**
- **3years warranty**

IP68     SELV LPS CB CE

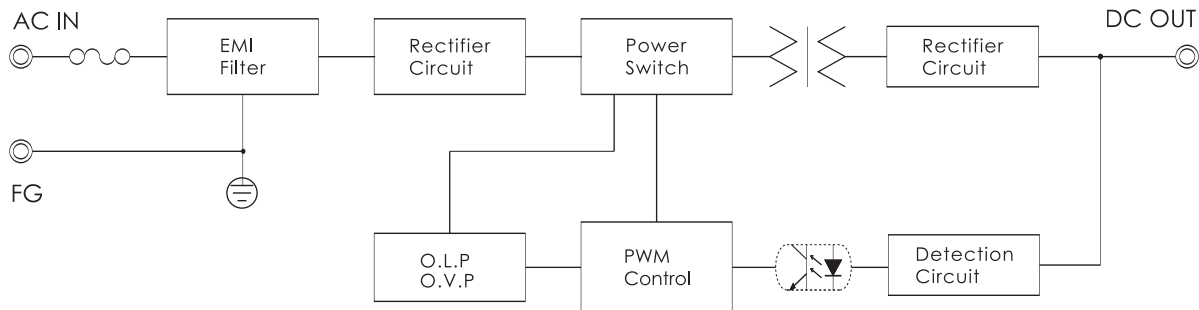
ITEM		UP40S12WQ	UP40S24WQ
INPUT	VOLTAGE RANGE	AC90~277V	
	FREQUENCY RANGE	47~63Hz	
	EFFICIENCY(typ.)	84%	85%
	AC CURRENT(typ.)	0.6A/115VAC(typ) 0.35A/230VAC(typ)	
	INRUSH CURRENT(typ.)	COLD START 50A/230VAC	
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	3.33A	1.66A
	RATED POWER	40W	
	RIPPLE&NOISE(max.) <small>Note2</small>	170mVp-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/115VAC 3000ms,100ms/230VAC at full load	
	HOLD UP TIME(typ.)	10ms/115VAC 60ms/230VAC at full load	
PROTEC-TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed	
	OVERLOAD	Over 110% of rating ; recovers automatically after fault condition is removed	
	OVER VOLTAGE	115~140% of rating	
ISOLA-TION	WITHSTAND VOLTAGE	I/P-O/P:AC3KV	
	ISOLATION RESISTANCE	I/P-O/P: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, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
OTHERS	DIMENSION/WEIGHT	146.5*42*35mm(L*W*H)/0.3Kg	
NOTE	1. All parameters not specially mentioned are measured at 230vac 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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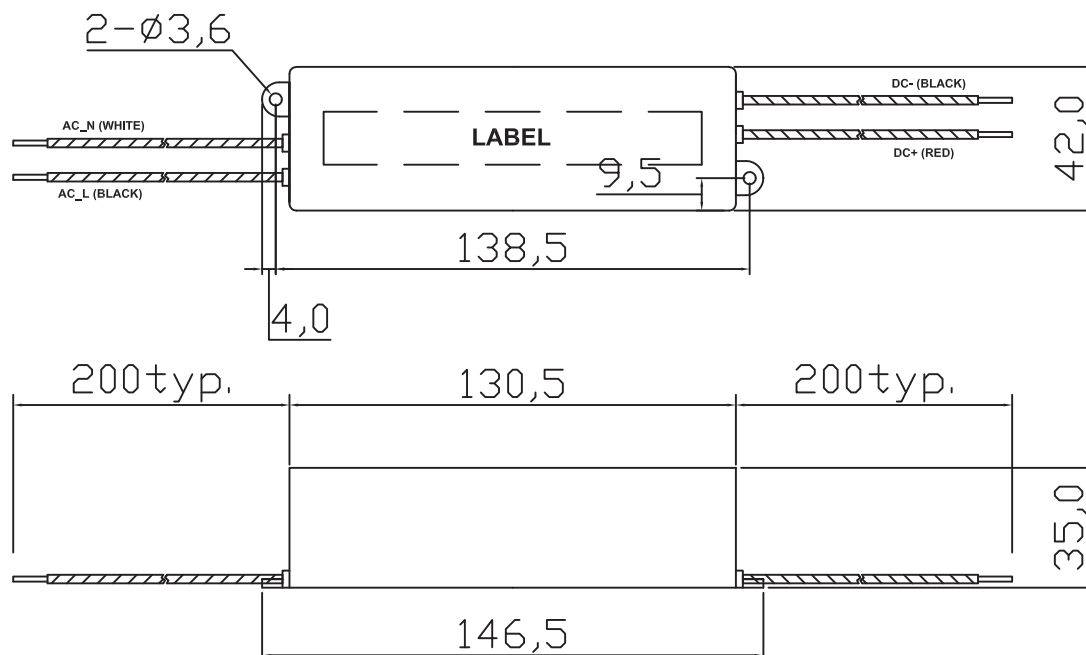
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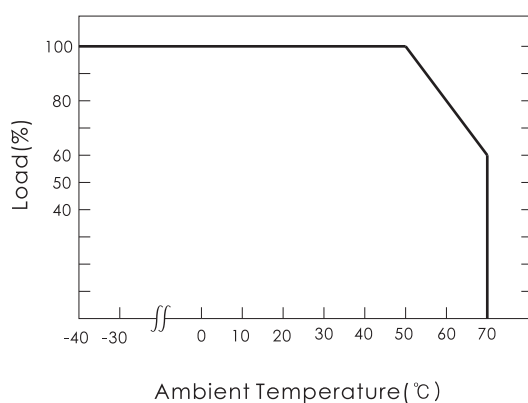
BLOCK DIAGRAM



DIMENSIONS(unit:mm)



DERATING CURVE



STATIC CHARACTERISTICS

