S.M.P.S	LED Converter	Water Proof Converter

80W2(V1) Series

80W single output
with constant voltage circuit

- **Constant voltage design(C.V. mode)**
- AC Input voltage 160-277V
- Protections:
  Over load/Over voltage /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 : EN61347-1,EN61347-2-13
  /K61347-1,K61347-2-13
- EMC standards : EN55022,EN61204-3,
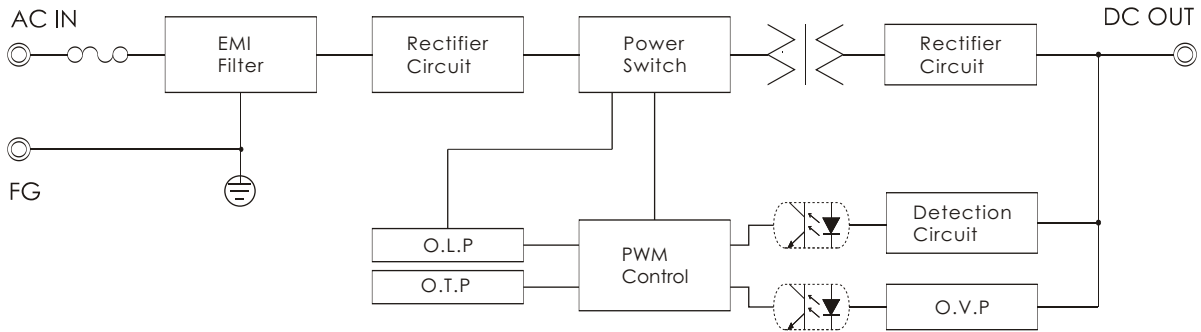 EN61000-3-2,3/K00015,K61547
- 3years warranty

IP68 110 F M M SELV LPS CB CE

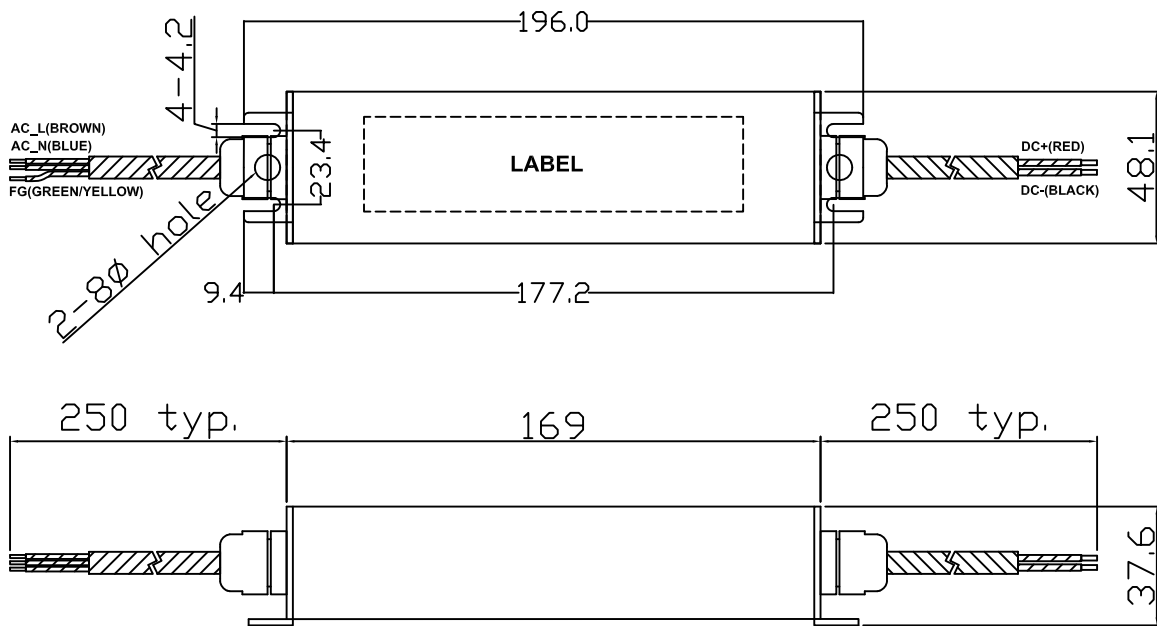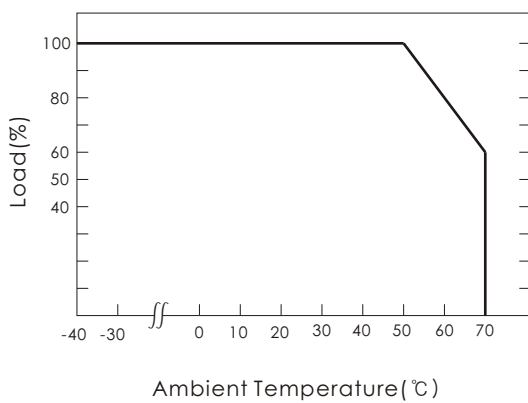|	ITEM	UP80S12W2(V1)
INPUT	VOLTAGE RANGE	AC160~277V
	FREQUENCY RANGE	47~63Hz
	EFFICIENCY(typ.)	85%
	AC CURRENT(typ.)	0.65A/230VAC
	INRUSH CURRENT(typ.)	COLD START 45A/230VAC
	LEAKAGE CURRENT	<2mA / 230VAC
OUTPUT	DC VOLTAGE	12V
	RATED CURRENT	6.66A
	RATED POWER	80W
	RIPPLE&NOISE(max.) Note2	220mVp-p
	VOLTAGE ADJ. RANGE	±5%
	VOLTAGE TOLERANCE Note3	±3%
	LINE REGULATION Note4	±1%
	LOAD REGULATION Note5	±2%
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load
	HOLD UP TIME(typ.)	25ms/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
	OVER TEMPERATURE	95±10℃(temp. Sensor) ; 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/WEIGHT	196x48.1x37.6mm(L*W*H)/0.45Kg
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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■ BLOCK DIAGRAM

AC IN

DC OUT

| EMI Filter | Rectifier Circuit | Power Switch | | Rectifier Circuit |

FG

O.L.P

O.T.P

PWM Control

Detection Circuit

O.V.P

■ DIMENSIONS(unit:mm)

196.0

4-4.2

AC_L(BROWN)
AC_N(BLUE)
FG(GREEN/YELLOW)

23.4

LABEL

48.1

DC+(RED)
DC-(BLACK)

2-8∅ hole

9.4

177.2

250 typ.

169

250 typ.

37.6

■ DERATING CURVE

Load(%)

100
80
60
50
40

-40 -30   0 10 20 30 40 50 60 70

Ambient Temperature(℃)

■ STATIC CHARACTERISTICS

Load(%)

100
80
60
50
40

160   180   220   277

Input Voltage(Vac), 60Hz