

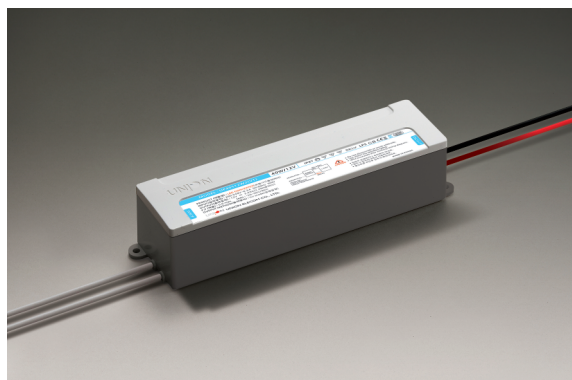
S.M.P.S

LED Converter

Water Proof Converter

## 40W2(V1) Series

40W single output  
with constant voltage circuit



- **Constant voltage design(C.V. mode)**
- **AC Input voltage 200-240V**
- **Protections:**  
Overload/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**
- **Plastic case**
- **Safety standards :**  
EN61347-1, EN61347-2-13/K61347-1, K61347-2-13
- **EMC standards :**  
K00015, K61547, K61000-4-2, 3, 4, 5, 6, 11 / design refer to EN61204-3, EN61000-3-2, 3
- **3years warranty**

IP68     SELV LPS CB CE 

| ITEM         |                          | UP40S12W2(V1)  | UP40S24W2(V1)     |
|--------------|--------------------------|--|-------------------|
| INPUT        | VOLTAGE RANGE            | AC200~240V   |                   |
|              | FREQUENCY RANGE          | 47~63Hz  |                   |
|              | EFFICIENCY(typ.)         | 83%  | 85%               |
|              | AC CURRENT(typ.)         | 0.34A/220VAC   |                   |
|              | INRUSH CURRENT(typ.)     | COLD START 40A/220VAC  |                   |
| OUTPUT       | DC VOLTAGE               | 12V  | 24V               |
|              | RATED CURRENT            | 3.33A(2.49A@50°C)  | 1.66A(1.24A@50°C) |
|              | RATED POWER              | 40W  | 40W               |
|              | RIPPLE&NOISE(max.) Note2 | 170mVp-p   | 290mVp-p          |
|              | VOLTAGE ADJ. RANGE       | ±5%  | ±5%               |
|              | VOLTAGE TOLERANCE Note3  | ±3%  | ±3%               |
|              | LINE REGULATION Note4    | ±1%  | ±1%               |
|              | LOAD REGULATION Note5    | ±2%  | ±2%               |
|              | SETUP,RISE TIME(max.)    | 3000ms,100ms/220VAC at full load   |                   |
|              | HOLD UP TIME(typ.)       | 30ms/220VAC 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°C (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~+50°C (Refer to "DERATING CURVE"),20~95%RH                                   |                   |
|              | STORAGE TEMP.&HUMID.     | -40~+75°C,10~95%RH   |                   |
|              | VIBRATION                | 10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes            |                   |
| OTHERS       | DIMENSION                | 146.5*42.5*38mm(L*W*H)   |                   |
|              | PACKING                  | 0.3Kg  |                   |

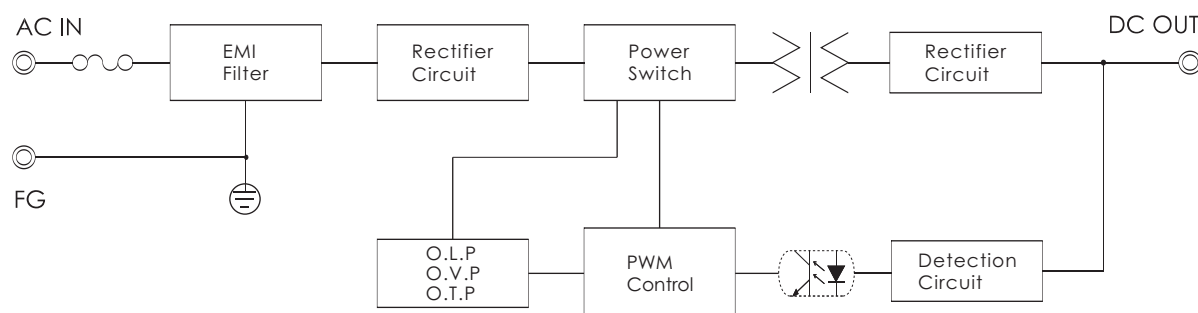
- NOTE**
1. All parameters not specially mentioned are measured at 220Vac input, rated load and 25°C of ambient temperature.
  2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1 uF & 47uF parallel capacitor.
  3. Tolerance : includes set up tolerance, 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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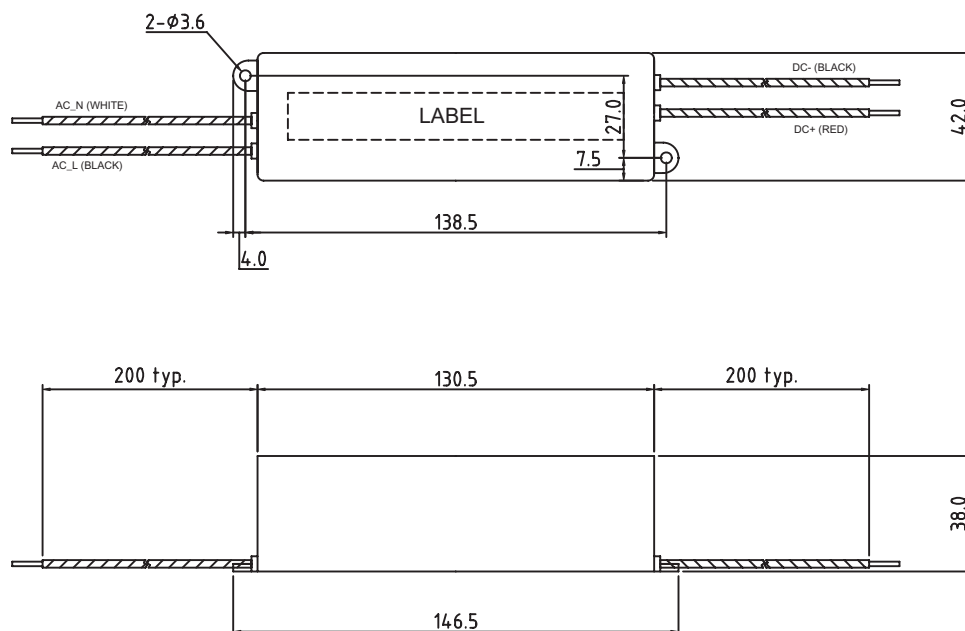
# LED Converter

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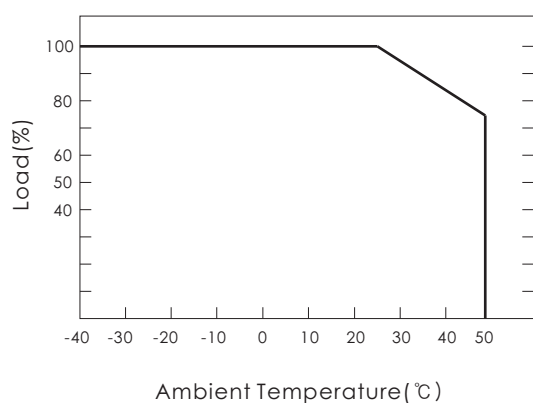
## BLOCK DIAGRAM



## DIMENSIONS(unit:mm)



## DERATING CURVE



## STATIC CHARACTERISTICS

