

S.M.P.S

LED Converter

Water Proof Converter

# F300WQ2-60C

300W single output with C.V circuit and PFC function



- **Constant voltage design**
- Built-in PFC function
- Built-in OTP function
- OTP-Dim Down(30%@Tc:50~60°C)
- Low THD(Total Harmonic Distortion)
- Protections:Over current /Over voltage /Short circuit
- IP68 design for outdoor installations
- 100% full load burn-in test
- Suitable for LED lighting and street lighting applications
- Safety standards : K61347-1,K61347-2-13
- EMC standards : K61547,K00015
- Metal case
- 3years warranty

IP68   SELV   

| ITEM         |                                                                                                                                                                                                                                                                                                               | UPF300S12WQ2-60C                                                             | UPF300S24WQ2-60C | UPF300S48WQ2-60C |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------|------------------|
| INPUT        | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                 | AC160~264V                                                                   |                  |                  |
|              | FREQUENCY RANGE                                                                                                                                                                                                                                                                                               | 47~63Hz                                                                      |                  |                  |
|              | POWER FACTOR                                                                                                                                                                                                                                                                                                  | PF>0.95 at rated power                                                       |                  |                  |
|              | THD(max.)                                                                                                                                                                                                                                                                                                     | THD<10%(@220VAC & full load)                                                 |                  |                  |
|              | EFFICIENCY(typ.)                                                                                                                                                                                                                                                                                              | 90%                                                                          | 91%              | 92%              |
|              | AC CURRENT(typ.)                                                                                                                                                                                                                                                                                              | 1.3A/230VAC                                                                  |                  |                  |
|              | INRUSH CURRENT(typ.)                                                                                                                                                                                                                                                                                          | 40A/230VAC                                                                   |                  |                  |
|              | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                               | <2.5mA / 230VAC                                                              |                  |                  |
| OUTPUT       | DC VOLTAGE                                                                                                                                                                                                                                                                                                    | 12V                                                                          | 24V              | 48V              |
|              | RATED CURRENT                                                                                                                                                                                                                                                                                                 | 22A(18.75A@50℃)                                                              | 12.5A(10A@50℃)   | 6.25A(5A@50℃)    |
|              | RATED POWER                                                                                                                                                                                                                                                                                                   | 264W(225W@50℃)                                                               |                  |                  |
|              | RECOMMENDED POWER                                                                                                                                                                                                                                                                                             | 180W(@35℃)                                                                   |                  |                  |
|              | VOLTAGE TOLERANCE                                                                                                                                                                                                                                                                                             | ±3%                                                                          |                  |                  |
|              | RIPPLE&NOISE(max.) <small>Note2</small>                                                                                                                                                                                                                                                                       | 150mVp-p                                                                     |                  |                  |
|              | SETUP,RISE TIME(max.)                                                                                                                                                                                                                                                                                         | 3000ms,100ms/230VAC at full load                                             |                  |                  |
|              | HOLD UP TIME(typ.)                                                                                                                                                                                                                                                                                            | 10ms/230VAC at full load                                                     |                  |                  |
| PROTEC-TION  | OVER CURRENT <small>Note3</small>                                                                                                                                                                                                                                                                             | Over 80% of rating ; recovers automatically after fault condition is removed |                  |                  |
|              | SHORT CIRCUIT                                                                                                                                                                                                                                                                                                 | Hiccup mode ; recovers automatically after fault condition is removed        |                  |                  |
|              | OVER VOLTAGE                                                                                                                                                                                                                                                                                                  | 110~140% of rating                                                           |                  |                  |
|              | OVER TEMPERATURE                                                                                                                                                                                                                                                                                              | 55℃(typ.) : Dim down , 60℃~70℃ : Latch                                       |                  |                  |
| ISOLA-TION   | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                             | I/P-O/P:AC3.75KV, I/P-F.G:AC2KV, O/P-F.G:AC1.5KV                             |                  |                  |
|              | 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.                                                                                                                                                                                                                                                                                          | -30~+50℃ (Refer to "DERATING CURVE),20~95%RH                                 |                  |                  |
|              | STORAGE TEMP.&HUMID.                                                                                                                                                                                                                                                                                          | -40~+80℃,10~95%RH                                                            |                  |                  |
|              | VIBRATION                                                                                                                                                                                                                                                                                                     | 10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes        |                  |                  |
| OTHERS       | DIMENSION/WEIGHT                                                                                                                                                                                                                                                                                              | 263*68*38.8mm(L*W*H)/1.15Kg                                                  |                  |                  |
| NOTE         | 1. All parameters not specially mentioned are measured at 230vac input, rated load and 25℃ of ambient temperature .<br>2. Ripple & noise are measured at 20MHZ of bandwidth by using a 12" twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor.<br>3. Refer to "DRIVING METHODS of LED MODULE" |                                                                              |                  |                  |

