



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.99 Typ.
- High efficiency: 91% Typ.
- IP67 design for indoor or outdoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations

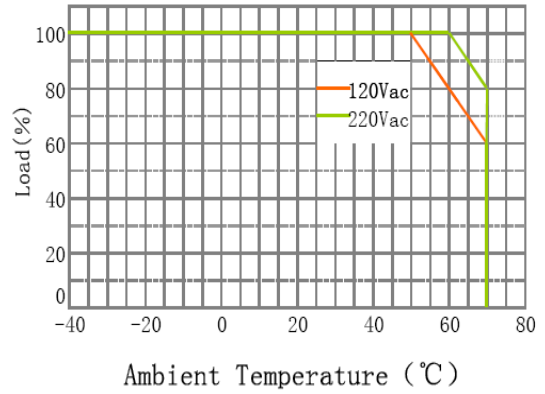
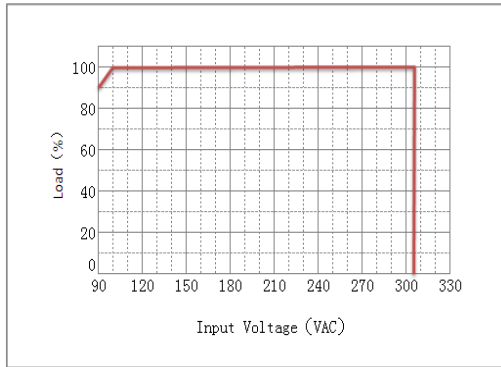


■ **Specification**

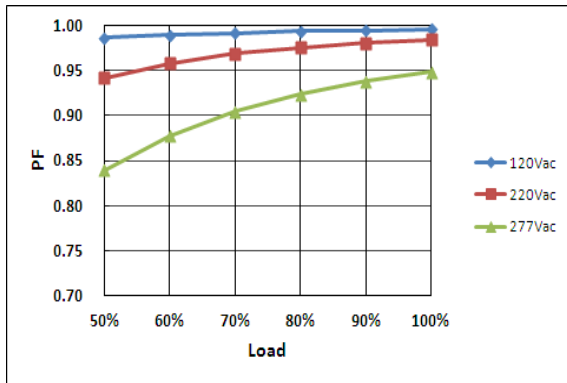
| Model | | 035 | 045 | 053 | 070 | 085 | 105 | 120 | 140 | 175 | 210 | 245 | 280 | 300 | 315 | 350 | 375 | 420 | 500 | |
|-----------------------|---|---|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|----|
| (MU060CXXXAQ) | | | | | | | | | | | | | | | | | | | | |
| Input | Efficiency(120Vac)(Typ.) _{Note.1} | 88% | 88% | 88% | 87% | 87% | 87% | 87% | 86% | 86% | 86% | 86% | 85% | 85% | 84% | 84% | 84% | 83% | 83% | |
| | Efficiency(230Vac)(Typ.) _{Note.1} | 91% | 91% | 91% | 90% | 90% | 90% | 90% | 89% | 89% | 89% | 89% | 88% | 88% | 87% | 87% | 87% | 86% | 86% | |
| | Voltage Range (V) _{Note.2} | 90~305Vac, OR 127~ 430Vdc (Derating may be need under low inputs, Refer to 'Derating Curve') | | | | | | | | | | | | | | | | | | |
| | Voltage Rate (V) _{Note.2} | 100Vac-277Vac | | | | | | | | | | | | | | | | | | |
| | Frequency Range (Hz) | 47~63 | | | | | | | | | | | | | | | | | | |
| | Power Factor(Typ.) | 0.99 (Typ.) with 80%~100% load,at 120Vac | | | | | | | | | | | | | | | | | | |
| | | 0.95 (Typ.) with 80%~100% load,at 230Vac | | | | | | | | | | | | | | | | | | |
| | | >0.9 with 80%~100% load,at 277Vac | | | | | | | | | | | | | | | | | | |
| | THD(Typ.) | <15% with 80%~100% load, at 100Vac~277Vac | | | | | | | | | | | | | | | | | | |
| | | <20% with 50%~100% load, at 100Vac~277Vac | | | | | | | | | | | | | | | | | | |
| AC Current(Typ.) | 0.8A at 100VAC input, 0.4A at 230VAC | | | | | | | | | | | | | | | | | | | |
| Inrush Current(Max.) | 50A at 230Vac input 25°C Cold Start (time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for less than 0.2ms) | | | | | | | | | | | | | | | | | | | |
| Leakage Current(Max.) | 0.75mA at 277Vac/60Hz | | | | | | | | | | | | | | | | | | | |
| Output | Voltage range (V) | 170 | 134 | 113 | 86 | 71 | 58 | 50 | 43 | 35 | 29 | 25 | 21 | 20 | 19 | 17 | 20 | 14 | 12 | |
| | Rated Current(mA) | 350 | 450 | 530 | 700 | 850 | 1050 | 1200 | 1400 | 1750 | 2100 | 2450 | 2800 | 3000 | 3150 | 3500 | 3750 | 4200 | 5000 | |
| | Rated Power (W) | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| | Voltage ADJ. Range (V) | 85-170 | 67-134 | 56~113 | 43~86 | 36~71 | 29~58 | 20-50 | 21~43 | 17~35 | 14~29 | 12~25 | 11~21 | 10~20 | 9~19 | 8~17 | 10~20 | 7~14 | 6~12 | |
| | Ripple&Noise Current(Typ.) | ≤10%((PK-AV) /AV) with LED default mode and full load | | | | | | | | | | | | | | | | | | |
| | Current Tolerance | ±5% | | | | | | | | | | | | | | | | | | |
| | Line Regulation | ±1% | | | | | | | | | | | | | | | | | | |
| | Load Regulation | ±3% | | | | | | | | | | | | | | | | | | |
| | Current ADJ. Range | - | | | | | | | | | | | | | | | | | | |
| | Turn on delay Time | <2s, at 120Vac; <1s, at 277Vac | | | | | | | | | | | | | | | | | | |
| Protection | Over Voltage(V) | 184 | 146 | 119 | 95 | 80 | 66 | 58 | 50 | 42 | 36 | 31 | 27 | 26 | 25 | 23 | 26 | 20 | 18 | |
| | Protection type: Voltage limiting,output will not exceed the upper limit voltage , recovers automatically after fault condition is removed. | | | | | | | | | | | | | | | | | | | |
| | Over Current | Protection type: Constant current limiting. | | | | | | | | | | | | | | | | | | |
| | Short Circuit | Protection type: Hiccup mode. recovers automatically after short is removed. | | | | | | | | | | | | | | | | | | |
| Over temperature | Protection type : Decrease output current . When TC reaches 105±10°C , the output current decrease to 50% rate value until the TC reaches 75±15°C | | | | | | | | | | | | | | | | | | | |
| Environment | Operating Temp. | -40~+70°C(Refer to 'Derating Curve') | | | | | | | | | | | | | | | | | | |
| | Tc | 90°C max | | | | | | | | | | | | | | | | | | |
| | Operating Humidity | 20~95%RH | | | | | | | | | | | | | | | | | | |
| | Storage Temp., Humidity | -40~+80°C , 10-95%RH | | | | | | | | | | | | | | | | | | |
| | Temp. Coefficient | 0.03%/°C (0~50°C) | | | | | | | | | | | | | | | | | | |
| Vibration | 10-500Hz,5G 12min/cycle , period for 72min each along X、 Y、 Z axes | | | | | | | | | | | | | | | | | | | |
| Safety & EMC | Safety Standard | UL 8750, UL1012, EN61347-1, EN61347-2-13, GB19510.1;GB19510.14 | | | | | | | | | | | | | | | | | | |
| | Withstand Voltage | I/P-O/P:3.75KVac I/P-FG:1.875KV O/P-FG:1.5KV | | | | | | | | | | | | | | | | | | |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25°C/70%RH | | | | | | | | | | | | | | | | | | |
| | EMC Emission | EN55015/FCC Part 15 , EN61000-3-2 Class C, EN61000-3-3 | | | | | | | | | | | | | | | | | | |
| EMC Immunity | EN61000-4-2,3,4,5,6,8,11 (Surge L,N-FG 6KV, L-N 4KV) , EN61547 | | | | | | | | | | | | | | | | | | | |
| Others | MTBF | 300,000 Hours,measured at full load,25°C ambient temperature | | | | | | | | | | | | | | | | | | |
| | Lifetime | 50,000 Hours at Tc 75°C(Refer to"Life Time VS. Tcase (Ref.)") | | | | | | | | | | | | | | | | | | |
| | Dimension | 177 x 67.5 x 37 mm (LxWxH) | | | | | | | | | | | | | | | | | | |
| | Weight | 0.75kg | | | | | | | | | | | | | | | | | | |

Note.1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages , Please Refer to 'Derating Curve' ; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature ;

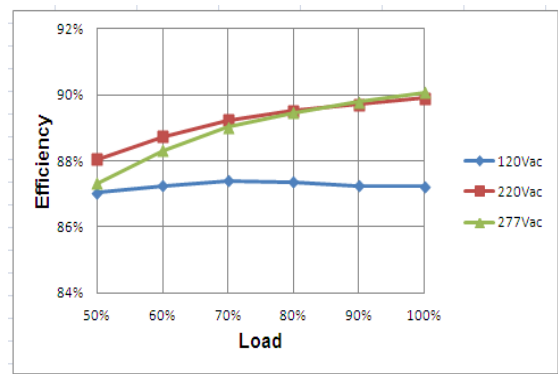
Derating Curve



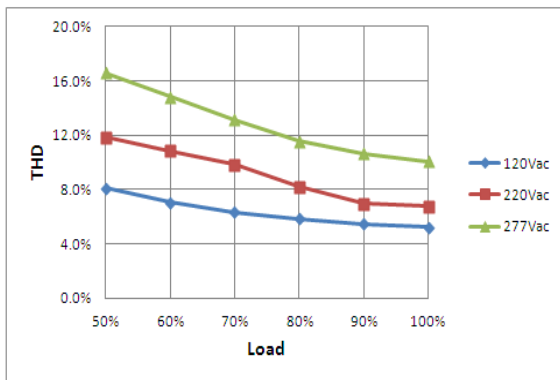
Power Factor VS. Load Curve



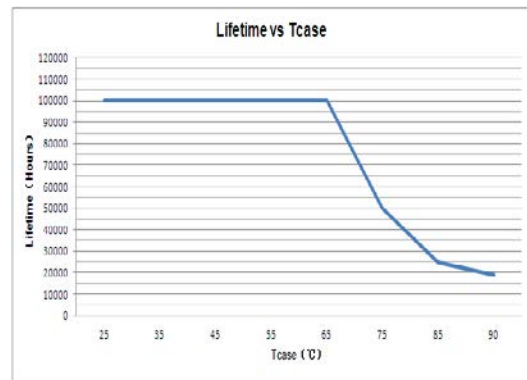
Efficiency VS. Load Curve



THD Curve

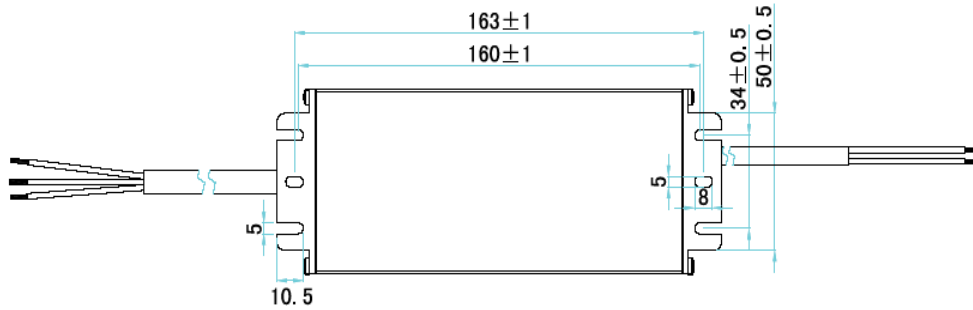


Life Time VS. Tcase (Ref.)



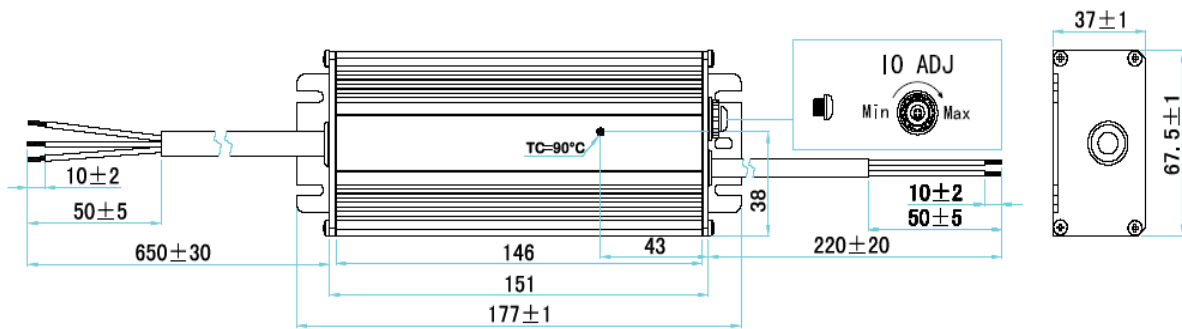
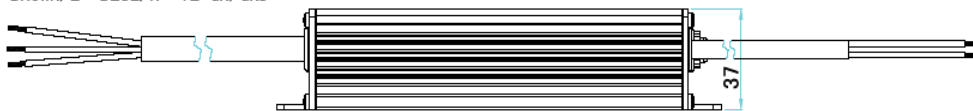
■ Mechanical Specification

Dimensions(Unit:mm)



RUBBER LINE CCC 60245 IEC 57 (YZW)/VDE H05RN-F
AC INPUT (3*1.0mm²) OD ϕ 7.3 \pm 0.3mm
BROWN/L BLUE/N YE-GN/GND

RUBBER LINE CCC 60245 IEC57 (YZW)/VDE H05RN-F
DC OUTPUT (2*1.0mm²) OD ϕ 6.8 \pm 0.3mm
BROWN/V+ BLUE/V-



RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.