



■ Features

- Input voltage: 90-305VAC.
- Built-in active PFC function: 0.99 Typ.
- Low THD: 10% Typ.
- High efficiency: 93% Typ.
- IP65 design for indoor or outdoor installations.
- High surge immunity
- Support Adjusting Output Current With Potentiometer.
- Compliance to worldwide safety regulations for lighting.
- Suitable for dry/damp locations.



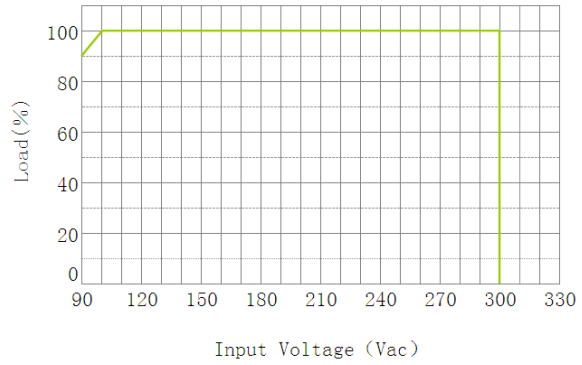
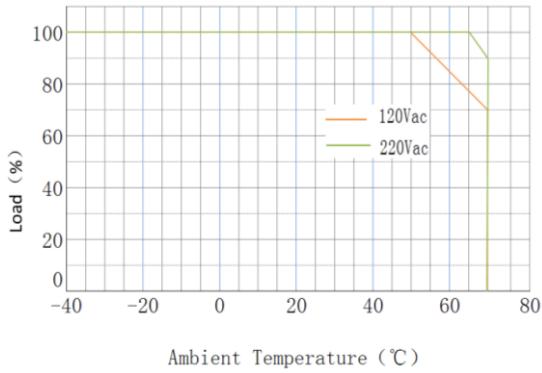
■ Specification

| Model | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|---------|---------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| (MU150HxxxAQ_ADJ) (1) | | 035 | 045 | 053 | 070 | 085 | 105 | 120 | 140 | 150 | 175 | 185 | 210 | 245 | 280 | 300 | 315 | 350 | 420 | 500 | |
| (MU150HxxxAQ_ADJ/II) (2) | | | | | | | | | | | | | | | | | | | | | |
| Input | Efficiency (Typ.)110VAC | 90.0% | 90.0% | 90.0% | 90.0% | 90.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 89.0% | 88.0% | 88.0% | 88.0% | 88.0% | 88.0% |
| | Efficiency (Typ.)220VAC | 93.0% | 93.0% | 93.0% | 93.0% | 93.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 92.0% | 91.0% | 91.0% | 91.0% | 91.0% | 91.0% |
| | Voltage Range (VAC) | 90-305 | | | | | | | | | | | | | | | | | | | |
| | Frequency Range (Hz) | 47-63 | | | | | | | | | | | | | | | | | | | |
| | Power Factor(Typ.) | 0.99 (Typical) , >0.90 at 100-277VAC input, 80%-100% load | | | | | | | | | | | | | | | | | | | |
| | THD(Typ.) | <10% at 220VAC input 50Hz, 80%-100% load, | | | | | | | | | | | | | | | | | | | |
| | AC Current(MAX.) | 1.8A at 100VAC, 0.9A MAX at 220VAC | | | | | | | | | | | | | | | | | | | |
| | Inrush Current(MAX.) | 65A (25°C , at 230VAC , cold start) | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX.) | 0.75mA at 277VAC 50Hz input for class I;0.5mA at 277VAC 50Hz input for classII | | | | | | | | | | | | | | | | | | | | |
| Output | DC Voltage (V) | 428 | 333 | 283 | 214 | 176 | 142 | 125 | 107 | 100 | 85 | 81 | 71 | 61 | 53 | 50 | 48 | 42 | 36 | 30 | |
| | Rated Current(mA) | 350 | 450 | 530 | 700 | 850 | 1050 | 1200 | 1400 | 1500 | 1750 | 1850 | 2100 | 2450 | 2800 | 3000 | 3150 | 3500 | 4200 | 5000 | |
| | Current ADJ. Range(mA) | 210-385 | 270-495 | 318-583 | 420-770 | 510-935 | 630-1155 | 720-1320 | 840-1540 | 900-1650 | 1050-1925 | 1110-2035 | 1260-2310 | 1470-2695 | 1680-3080 | 1800-3300 | 1890-3465 | 2100-3850 | 2520-4620 | 3000-5500 | |
| | Rated Power (W) | 149.8 | 149.9 | 150.0 | 149.8 | 149.6 | 149.1 | 150.0 | 149.8 | 150.0 | 148.8 | 149.9 | 149.1 | 149.5 | 148.4 | 150.0 | 151.2 | 147.0 | 151.2 | 151.0 | 150.0 |
| | Ripple Current(I _{dc} (pk-av)/av) | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% |
| | Voltage Range(V) | 214-428 | 167-333 | 142-283 | 107-214 | 88-176 | 71-142 | 63-125 | 54-107 | 50-100 | 43-85 | 41-81 | 36-71 | 31-61 | 27-53 | 25-50 | 24-48 | 21-42 | 18-36 | 15-30 | |
| | Current Tolerance _{Note.1} | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% |
| | Line Regulation | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% |
| | Load Regulation | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% | ±3% |
| | Setup, Rise Time | 1.2s max, measured at 120VAC input; 1s max, measured at 220VAC input | | | | | | | | | | | | | | | | | | | |
| Hold Up Time | 10ms at 220VAC 100% load | | | | | | | | | | | | | | | | | | | | |
| Protection | Over Voltage(V)(Typ.) | 578 | 450 | 382 | 289 | 238 | 192 | 169 | 144 | 135 | 115 | 109 | 96 | 82 | 72 | 2 | 65 | 57 | 49 | 41 | |
| | Short Circuit | Hiccup mode.The power supply shall be self-recovery when the fault 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 | Working Temp. | -40-+70°C, refer to the derating curve for detail | | | | | | | | | | | | | | | | | | | |
| | Working Humidity | 20-95%RH, non-condensing | | | | | | | | | | | | | | | | | | | |
| | Storage Temp., Humidity | -40-+85°C , 10%-95%RH | | | | | | | | | | | | | | | | | | | |
| | Temp. Coefficient | 0.03%/°C (0-50°C) | | | | | | | | | | | | | | | | | | | |
| Safety & EMC | Vibration | 10-500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes | | | | | | | | | | | | | | | | | | | |
| | Safety Standard | UL8750, UL1012, CAN/CSA-C22.2No.107.1-01,EN61347-1, EN61347-2-13 ,EN60598-1,EN62384,GB19510.1,GB19510.14,GB7000.1 | | | | | | | | | | | | | | | | | | | |
| | Withstand Voltage | I/P-O/P:3.75KVAC I/P-FG:1.875KV O/P-FG:1.5KV for class I;I/P-O/P:3.75KVAC I/P-Case:3.75KV O/P--Case:1.5KV for class II | | | | | | | | | | | | | | | | | | | |
| | Isolation Resistance | I/P-O/P ,I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/70%RH for class I;I/P-O/P ,I/P-Case,O/P-Case:100M Ohms/500VDC/25°C/70%RH for class II | | | | | | | | | | | | | | | | | | | |
| | EMC Emission | EN55015/FCC Part 15 Class B , EN61000-3-2 Class C , EN61000-3-3 | | | | | | | | | | | | | | | | | | | |
| Others | EMC Immunity | EN61000-4-2,3,4,5,6,8,11 , EN61547 (Surge L,N-FG 6KV , L-N 4KV) for class I;EN61000-4-2,3,4,5,6,8,11 , EN61547 (Surge L,N-FG 6KV , L-N 4KV) for class II | | | | | | | | | | | | | | | | | | | |
| | CCC approval | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | |
| | CB/PSE approval | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | |
| | CE approval | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | (1),(2) | |
| ENEC approval | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | |
| MTBF | 300,000 hours, measured at full load, 25°C ambient temperature, 80% Load ,MIL-HDBK-217F | | | | | | | | | | | | | | | | | | | | |
| Dimension | 221 x 67.5 x 40 mm (LxWxH) | | | | | | | | | | | | | | | | | | | | |
| Weight | 1.05kg(Typ.) | | | | | | | | | | | | | | | | | | | | |

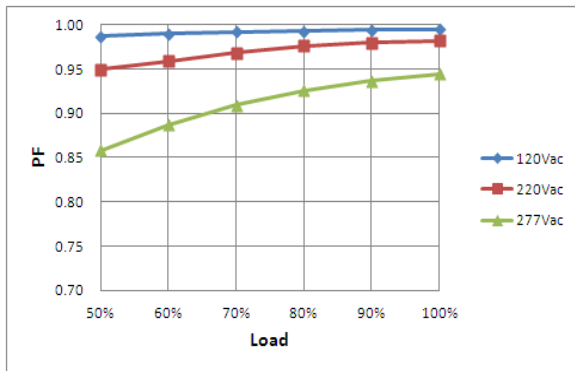
Notes: 1. Includes set up tolerance, line regulation and load regulation.
2.(1) MU150HxxxAQ_ADJ Series ,(2) MU150HxxxAQ_ADJ/II Series

Test Curve

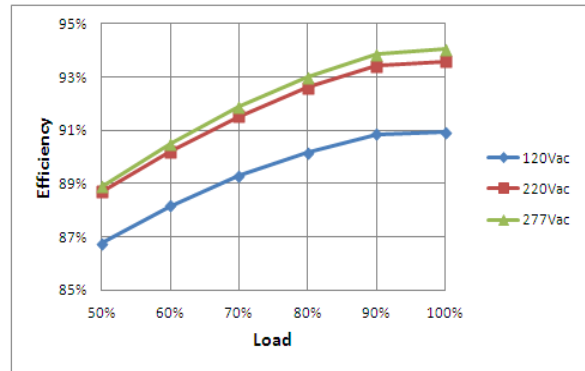
Derating Curve



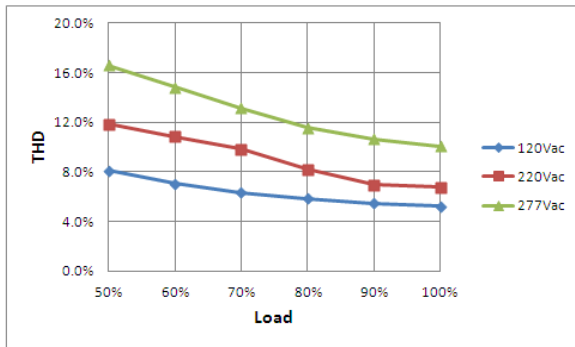
Power Factor Curve



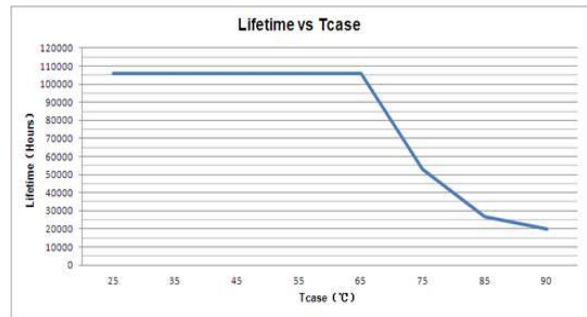
Efficiency VS. Load Curve(Model:700mA)



THD Curve

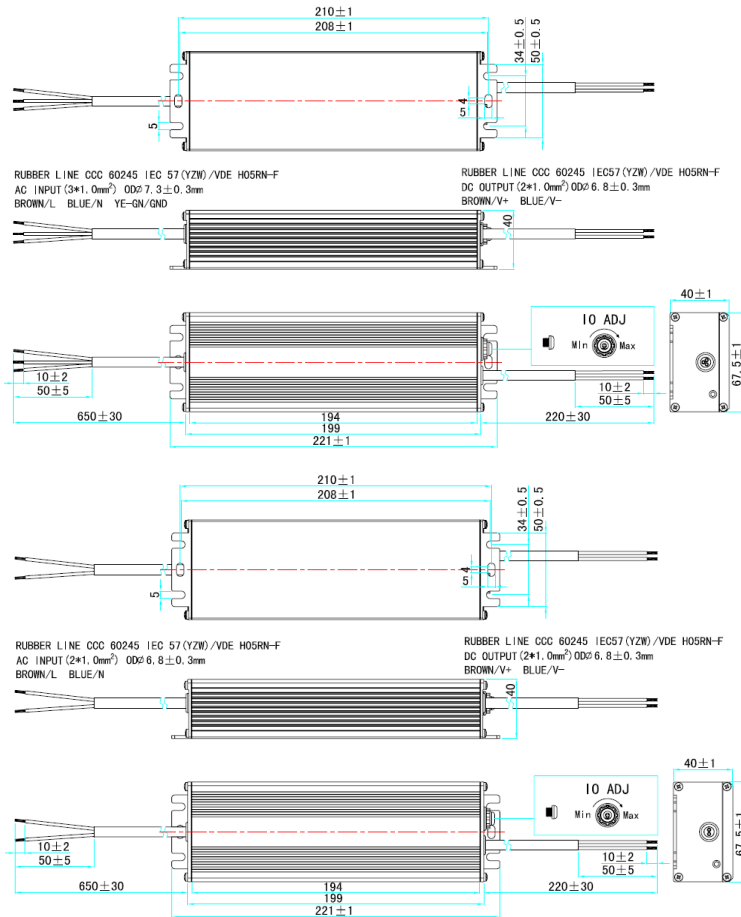


Lifetime vs. Case Temperature



■ Mechanical Specification

1. Dimensions(Unit:mm)



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.

2. Terminal wire Type

| Products | AC Input | | | DC output | | |
|-------------------------------|--|------------|-------------------------------------|--|-----------|-------------------------------------|
| | Wire Type | Assignment | Description | Wire Type | Assignmer | Description |
| ENEC/CE approval for class II | RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F | BROWN/L | 2*1.0mm ² ODΦ 6.8±0.3mm | RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F | Brown/+ | 2*1.0mm ² ODΦ 6.8±0.3mm |
| | | BLUE/N | | | Blue/- | |
| UL approval | UL SJTW PVC | BLACK/L | 3*AWG#18 | UL SJTW PVC | RED/+ | 2*AWG#18 |
| | | WHITE/N | | | BLUE/- | |
| | | GREEN/GND | | | | |
| PSE approval | PSE HVCTF/VCTF/VCTFK PVC | BLACK/L | 3*0.75mm ² ODΦ 6.8±0.3mm | PSE HVCTF/VCTF/VCTFK PVC | WHITE/+ | 2*0.75mm ² ODΦ 6.7±0.3mm |
| | | WHITE/N | | | BLACK/- | |
| | | YE-GN/GND | | | | |
| | | | | | | |
| CCC/CB/CE approval | RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F | BROWN/L | 3*1.0mm ² ODΦ 7.3±0.3mm | RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F | Brown/+ | 2*1.0mm ² ODΦ 6.8±0.3mm |
| | | BLUE/N | | | Blue/- | |
| | | YE-GN/GND | | | | |
| | | | | | | |