

DWG NO.: MSSD-4516

LED DRIVER SPECIFICATIONS

| Custome | er's Part Number: | | | | |
|---------|----------------------|---|---|----------------------|--|
| MOONS' | Part Number: | 4696350003029 | | | |
| Model: | | | | | |
| P/N: | | | | | |
| | | | | | |
| | (| CUSTOMER'S A | PPROVAL STAI | МР | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | . | | | |
| | Please sign back aft | er your approval. The s receive purc | specifications will com chase order. | e into force when we | |
| | DWG | СНК | STANDARD | APPD. | |
| | | | | | |
| | | | | | |



PU012H045AQ

General-Built-In

DWG NO.: MSSD-4516

| Rev. | Date | Contents | ECO NO. | DWG | CHK | APPR |
|------|------|----------|---------|-----|-----|------|
| | | | | | | |
| I | | | | | | |
| 1 | | | | | | |
| 1 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| İ | | | | | | |
| İ | | | | | | |
| 1 | | | | | | |
| 1 | | | | | | |
| | | | | | | |
| 1 | | | | | | |
| İ | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| İ | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| İ | | | | | | |
| Ì | | | | | | |
| İ | | | | | | |
| Ì | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | 1 | | I | 1 | | |
| | | | | | | |

subject to change without notice Page 2 of 5



PU012H045AQ

General-Built-In

DWG NO. : MSSD-4516 A

Page 3 of 5



subject to change without notice

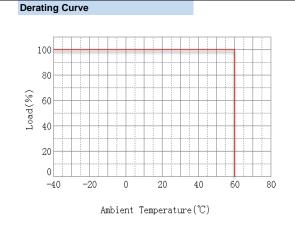
■ Features

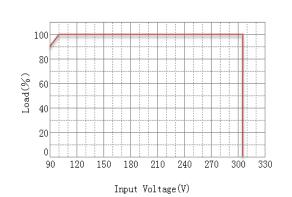
- · Input voltage: 90-305VAC
- · Built-in active PFC function: 0.99 Typ.
- · High efficiency: 84% Typ.
- · IP66 design for indoor installation
- · High surge immunity
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations

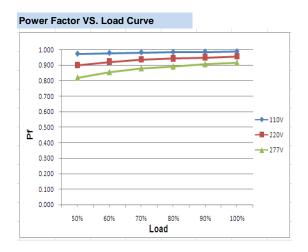
| | | PU012H045AQ | | | | |
|--------------|--------------------------------------|---|--|--|--|--|
| Input | Efficiency(120Vac) _{Note.1} | 83%(Typ.) | | | | |
| | Efficiency(230Vac) _{Note.1} | 84%(Typ.) | | | | |
| | Voltage Range (V) _{Note.2} | 90 ~ 305Vac | | | | |
| | Voltage Rated (V) _{Note,2} | 100-277Vac | | | | |
| | Frequency Range (Hz) | 47~63 | | | | |
| | Power Factor | >0.97 with 80%-100% load,at 120Vac | | | | |
| | | >0.93 (Typ.)with 80%~100% load,at 230Vac | | | | |
| | | >0.9(Min) with100% load at 277Vac | | | | |
| | THD | <15% with 80% ~ 100% load, at 100~277Vac | | | | |
| | | <20% with 50%~100% load, at 100~277Vac | | | | |
| | AC Current(Max.) | 0.2A at 100VAC input, 0.1A at 230VAC | | | | |
| | Inrush Current(Max.) | 15A at 230Vac input 25°C Cold Start (time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for than 0.2ms) | | | | |
| | Leakage Current(Max.) | 0.75mA at 277Vac/60Hz | | | | |
| | Output Voltage range (V) | 13-27 | | | | |
| Output | Rated Current(mA) | 450 | | | | |
| | Rated Power (W) | 12 | | | | |
| | Ripple Current(Typ.) | <30%((PK-AV) /AV) with LED default mode and full load) | | | | |
| | Current Tolerance | 6% | | | | |
| | Line Regulation | 5% | | | | |
| | Load Regulation | 5% | | | | |
| | Current ADJ. Range | | | | | |
| | Turn on delay Time | <1.5s, at 120Vac; <1s, at 277Vac | | | | |
| | Over Voltage(V) | <36 | | | | |
| | | Protection type: Voltage limiting.output will not exceed the upper limit voltage, recovers automatically after fault condition is removed. | | | | |
| Protection | Short Circuit | Protection type: Hiccup mode. recovers automatically after short is removed. | | | | |
| | Over temperature | Protection type: Resumable mode.when the inside temperature of PSU rise to 100°C(Typ.), the PSU will shutdown. The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature. | | | | |
| | Operating Temp. | -40~+60°C(Refer to 'Derating Curve') | | | | |
| | Tc | 90°C max | | | | |
| | Operating Humidity | 20~95%RH | | | | |
| Environment | Storage Temp., Humidity | -40~+85°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 | UL8750, UL1310 Class 2,CSA C22.2 NO.223-M91, EN61347-1, EN61347-2-13 | | | | |
| | Withstand Voltage | I/P-O/P:3.75KVAC | | | | |
| | Isolation Resistance | I/P-O/P:100M Ohms (500VDC/25°C/70%RH) | | | | |
| | EMC Emission | FCC Part 15 Class B/EN55015 , EN61000-3-2 Class C , EN61000-3-3 | | | | |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11 , EN61547 (Surge: L-N : ±2kV) | | | | |
| 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 | 85 x 36 x 23 (mm) (LxWxH) | | | | |
| | | | | | | |

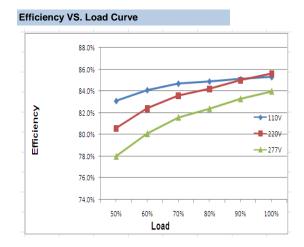
Note.1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltage, Please Refer to 'Derating Curve';

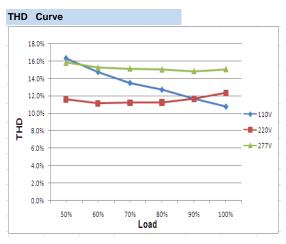
DWG NO.: MSSD-4516

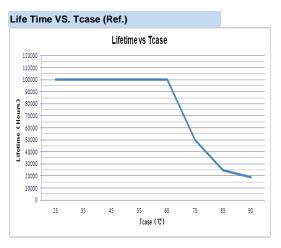














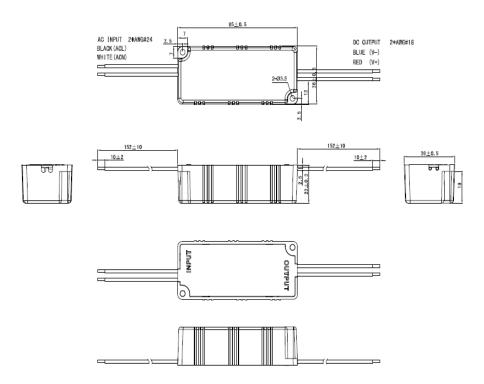
PU012H045AQ

General-Built-In

DWG NO.: MSSD-4516

■ Mechanical Specification

Dimensions (Unit: mm)



■ Nameplate



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.