

■ **Model Name :** PSDV600102U
ILU600M102U1U

■ **Features :**

- Class II
- Flickerless
- Full-protection provided: OCP/OVP/OTP/SCP/OLP
- Low Power Dissipation (Stand-by mode : <0.5Wh)
- Wide Vout : 25 ~ 46Vdc
- UL8750 / UL1310 (Suitable for Class 2 Wiring)
- Compliant with CB, CE, UL safety requirements for LED lighting
- Constant Current Type
- Factory Wiring



E480967



SOLU M CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

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■ Electrical specification

| No. | Item | Min | Typ | Max | Unit | Remark | |
|-----|---------------------------------|-------------------|-------|-------|------|-------------------------------|--------------------------|
| 1 | Nominal Input Voltage | 120 | 220 | 277 | Vac | | |
| 2 | Variable Input Voltage | 108 | - | 300 | Vac | | |
| 3 | Maximum Input Current | - | - | 0.8 | Arms | | |
| 4 | Nominal Input Frequency | 47 | 50/60 | 63 | Hz | | |
| 5 | Power Factor (PF) | 90 | - | - | % | 1) | |
| 6 | Total Harmonic Distortion (THD) | - | - | 20 | % | 1) | |
| 7 | Inrush Current | - | - | 50 | A | | |
| 8 | Electrical Efficiency | 85 | 88 | - | % | 2) | |
| 9 | Turn-on Delay | - | - | 0.5 | s | @Cold Start, 3) | |
| 10 | LED Output Current | 998 | 1050 | 1103 | mA | @46Vdc Load | |
| 11 | LED Output Current Ripple | - | - | 105 | mA | 20MHz Bandwidth, 2) | |
| 12 | LED Output Voltage | 25 | - | 46 | Vdc | | |
| 13 | Adjustable of LED Current | 700 | - | 1050 | mA | Rset | |
| 14 | 12V Output Voltage | 10.8 | 12 | 13.2 | Vdc | 2) | |
| 15 | 12V Output Voltage Ripple | - | - | ± 1.2 | Vdc | 20MHz Bandwidth, 2) | |
| 16 | 12V Output Current | - | - | 100 | mA | | |
| 17 | STBY Power Dissipation | - | - | 0.5 | Wh | LED Off_Remote Low | |
| 18 | Output Open LED Protection | - | 54 | 59 | Vdc | @Vpeak | |
| 19 | Output Short Circuit Protection | - | - | - | - | No Damage | |
| 20 | Storage Temperature | -40 | 25 | 80 | °C | | |
| 21 | Operating Temperature | -20 | 25 | 50 | °C | | |
| 22 | Case Temperature (Tc) | - | 50 | 80 | °C | | |
| 23 | Humidity | 20 | - | 85 | % | | |
| 24 | Insulation Resistance | 10 | - | - | MΩ | 500Vdc between Input & Output | |
| 25 | Dielectric Withstand Voltage | Input to Output | 3.11 | - | - | kV | Apply for 1 minute 6) |
| 26 | | Input to Case | 3.11 | - | - | kV | |
| 27 | | Output to Case | 0.5 | - | - | kV | |
| 28 | Surge | Line to Line | 4 | - | - | kV | 4) |
| 29 | | Line to Ground | 6 | - | - | kV | 4) |
| 30 | ESD | Contact Discharge | 4 | - | - | kV | 5) |
| 31 | | Air Discharge | 8 | - | - | kV | 5) |

※ Terminal Block Wiring Method : Factory Wiring as per UL1310

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Notes

- 1) Test Condition: 120~277Vac 50/60Hz Input, Max. dimming ,Ambient Temperature 25°C
- 2) Test Condition: 120~277Vac 60Hz Input, Max. dimming, 30min. Aging, Ambient Temperature 25°C, Measure at the cable-end
- 3) At least, Turn-On Time should be continued for 1sec.
- 4) Surge Specification above is higher than IEC/EN 61000-4-5. (Differential 1kV, Common 2kV)
- 5) ESD Specification above meets IEC/EN 61000-4-2 Requirements. (Contact 4kV, Air 8kV)
- 6) Determined by Paragraph 34.1.2, UL1310 or Paragraph 8.4.2, UL8750, EN61347-1, EN61347-2-13

Safety Standards

Including safety requirements above, the LED driver complies with the following safety standards:

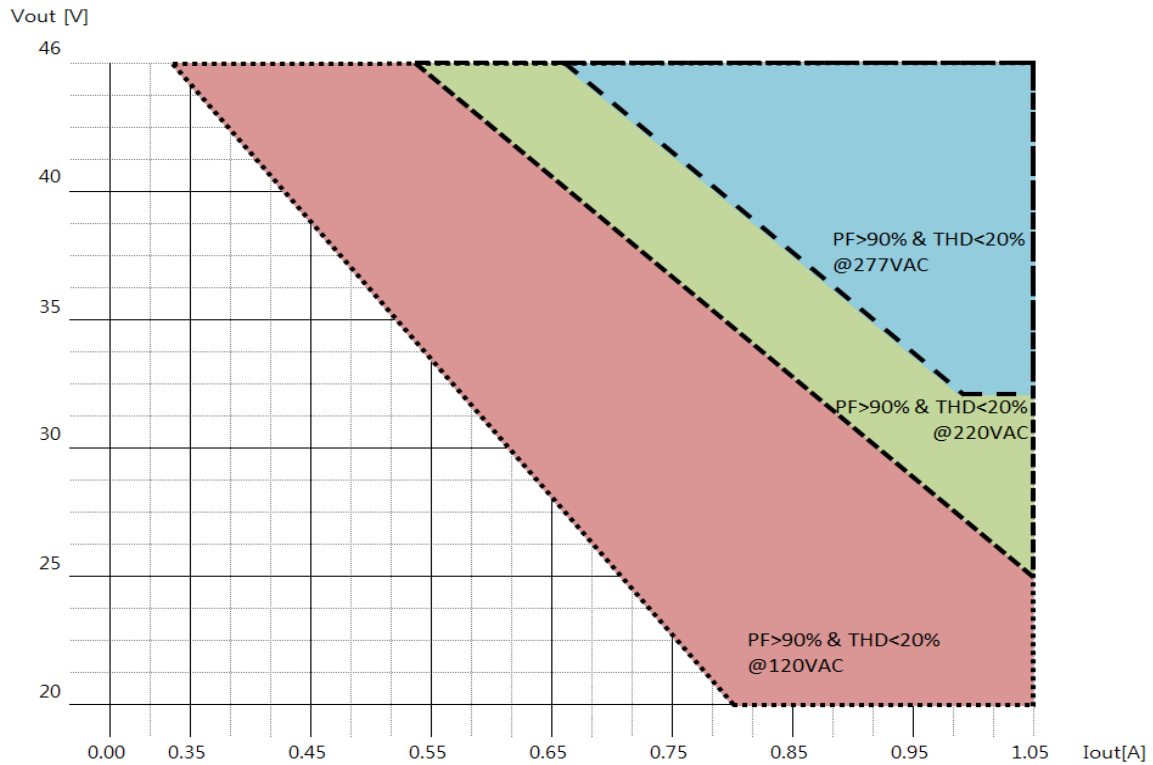
| No. | Item | Description |
|-----|-----------------------------------|--|
| 1 | UL8750, UL1310 | UL Safety Standards (Class 2, Dry and Damp Location) |
| 2 | FCC Part 15, Class B | Conducted and Radiated Emission Test |
| 3 | IEC/EN 61347-1, IEC/EN 61347-2-13 | IEC/EN Safety Standards |
| 4 | IEC/EN 55015 | Conducted and Radiated Emission Test |
| 5 | IEC/EN 61000-3-2 | Harmonic current emissions: Class C |
| 6 | IEC/EN 61000-3-3 | Voltage Fluctuations and Flicker |
| 7 | IEC/EN 61000-4-2 | Electrostatic Discharge (ESD): Contact 4kV, Air 8kV |
| 8 | IEC/EN 61000-4-3 | Radio-frequency Electromagnetic Fields |
| 9 | IEC/EN 61000-4-4 | Electrical Fast Transients (EFT) |
| 10 | IEC/EN 61000-4-5 | Surges: Differential 1kV, Common 2kV |
| 11 | IEC/EN 61000-4-6 | Injected Currents |
| 12 | IEC/EN 61000-4-8 | Power Frequency Magnetic Fields |
| 13 | IEC/EN 61000-4-11 | Voltage Dips and Short Interruptions |

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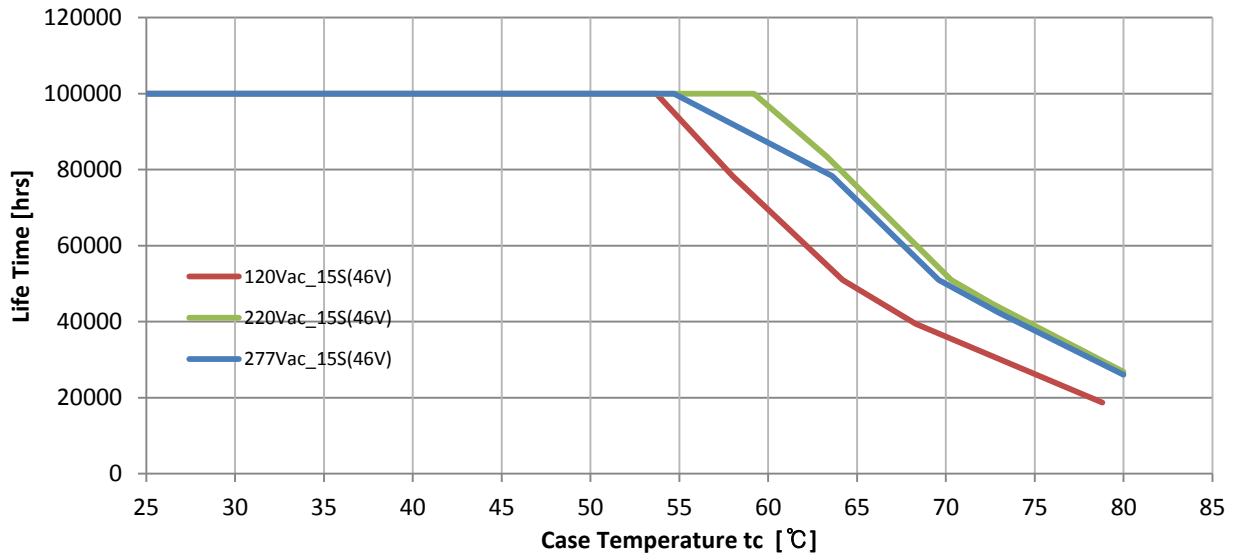
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■ Operating window



■ Life Time vs Tcase



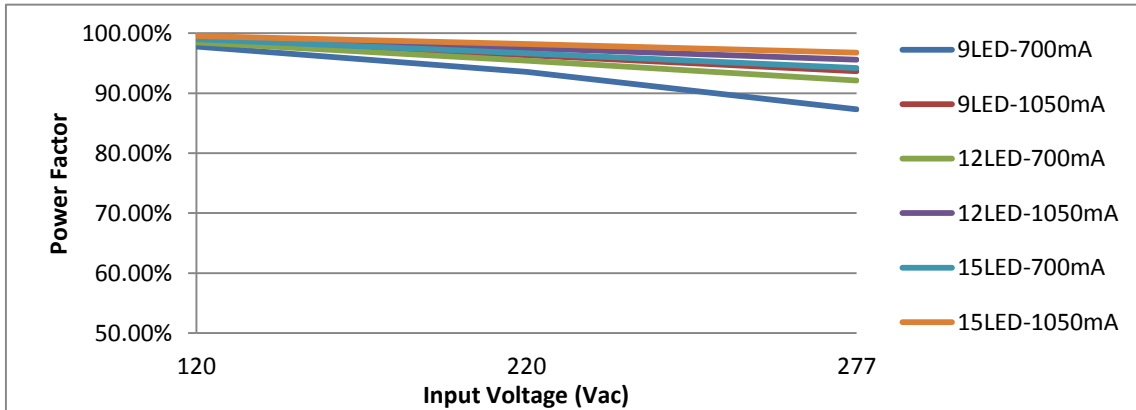
Remark) LED Driver has a rated lifetime of 50,000 hours @ Tc ≤ 65°C

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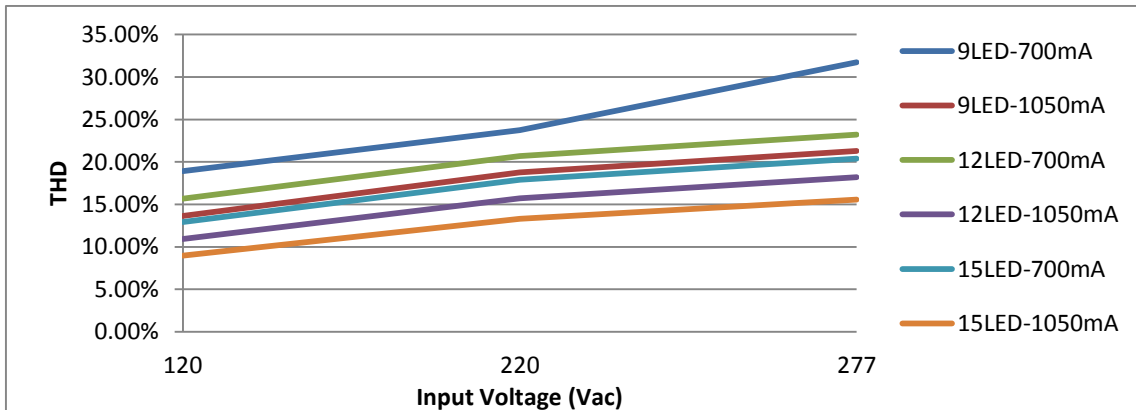
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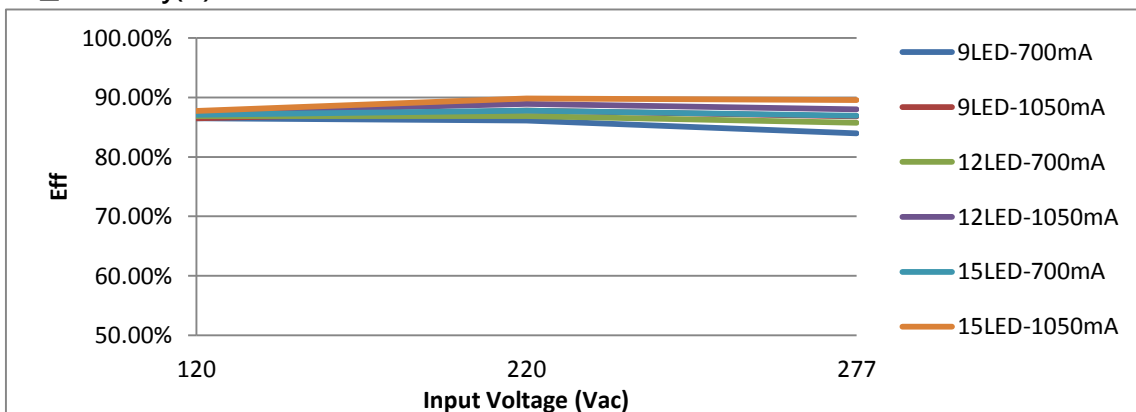
Power Factor



THD(%)



Efficiency(%)

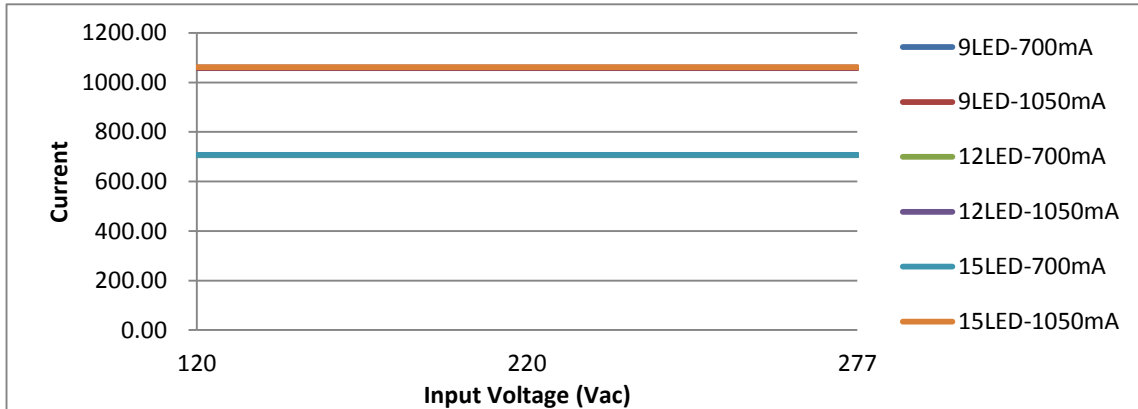


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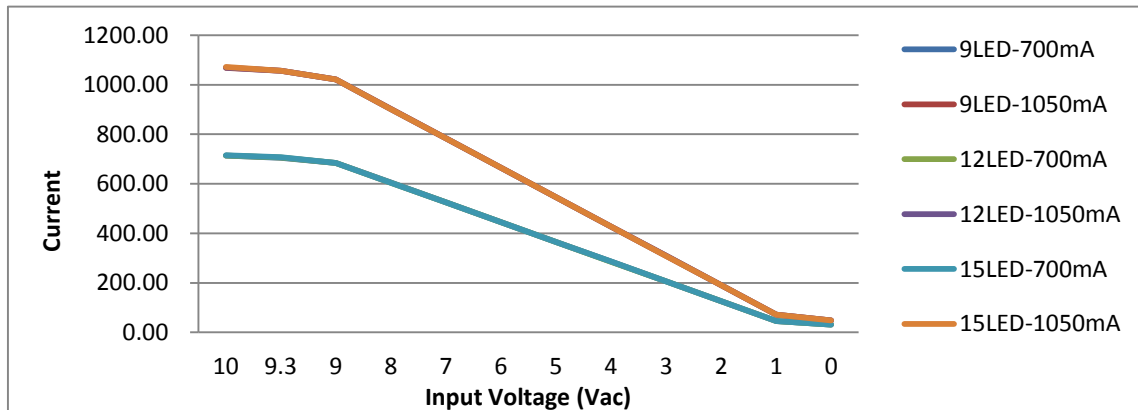
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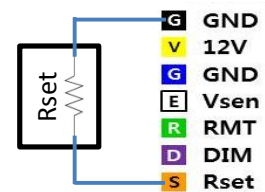
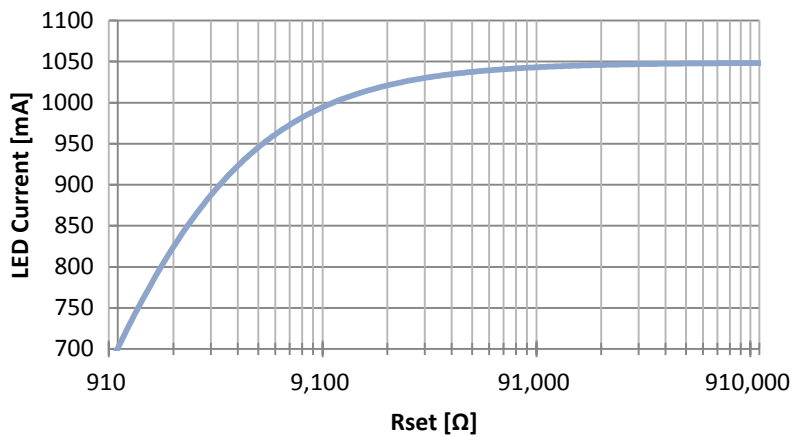
Output Current(mA)



Dimming curve



Adjustable of Current

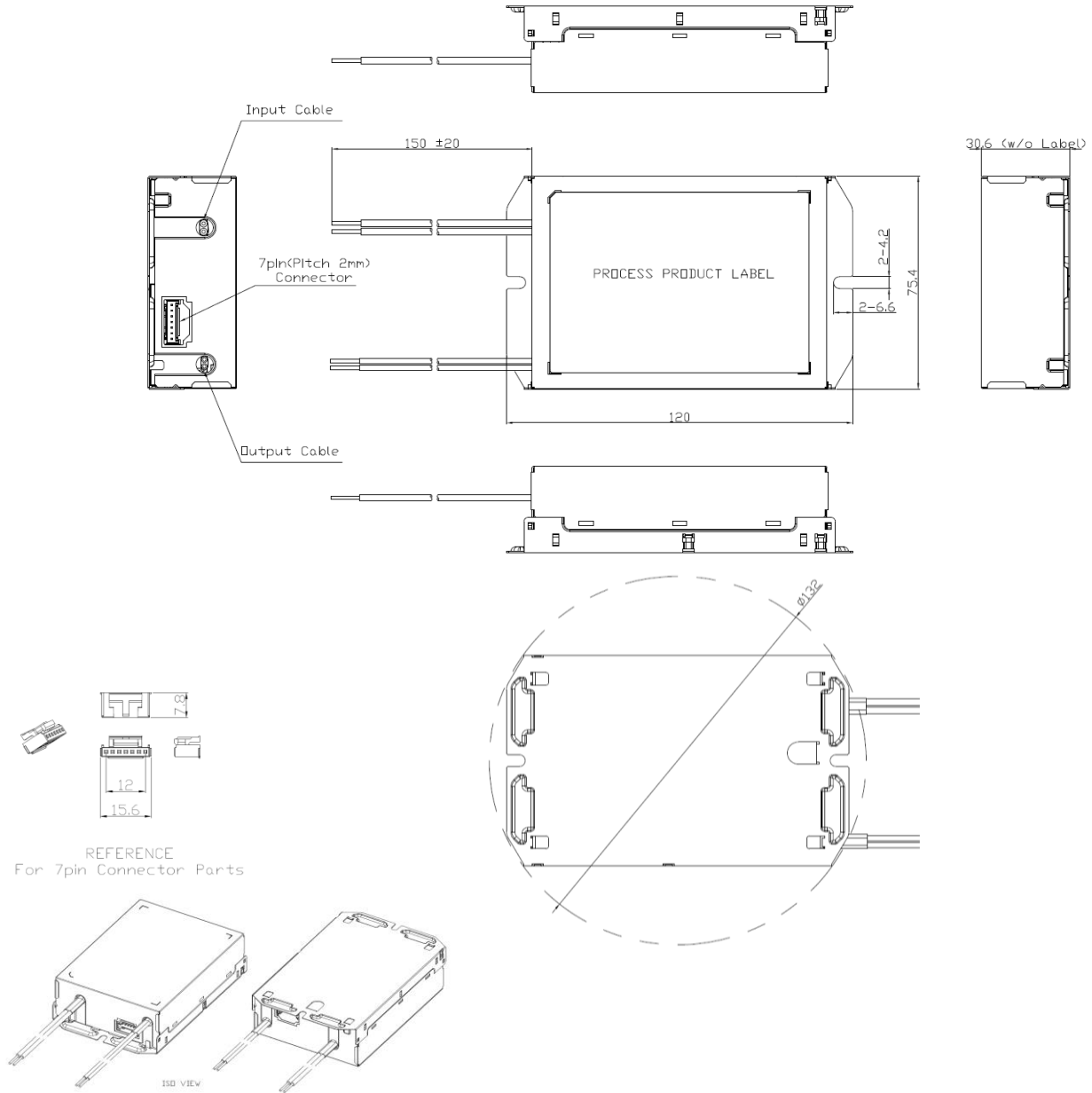


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■ Mechanical Specification



■ Enclosure Size

| Unit | Width | Length | Height | Mount Length | Overall Length |
|------|-------|--------|--------|--------------|----------------|
| mm | 120.0 | 75.4 | 30.6 | 75.4 | 75.4 |
| inch | 4.72 | 2.97 | 1.20 | 2.97 | 2.97 |

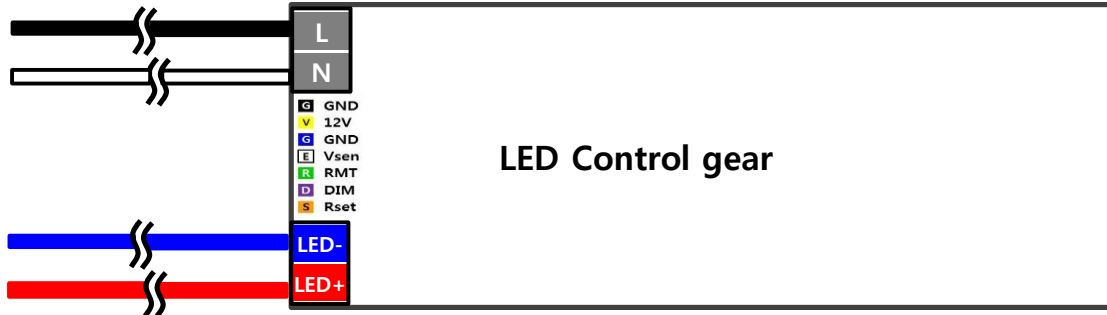
■ Case Material : PC

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■ Wiring Diagram



※ Caution

- 1) Do not detach input and output wires after complete installation
- 2) Use wires certified by UL, CB
- 3) Wires should be less than 2m when installed in final equipment

■ Output Connector Specification

| Wafer | Housing | Terminal | Wire |
|-----------------------|---------------------|------------------|----------|
| SMAW200A-07 YEONHO | SMH200-07 YEONHO | YST200 YENOHO | 22~28AWG |

Remark) Output wiring specifications may be changed without notification

■ Rating Label Drawing

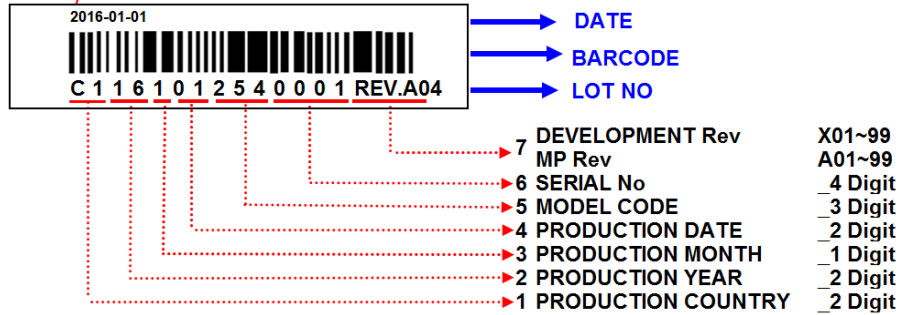
| | |
|---|--|
| <p>INPUT U_{in} : 120 - 277V~ 50/60 Hz</p> <p>L LIVE (Black) I_{in} : Max. 0.8A 0.33A...220Vac&P_{out}=48W</p> <p>N Neutral (White) 0.19A...220Vac&P_{out}=18W P_{in} : Max. 65W λ_{PF} : 0.9</p> <p>CONTROL SIGNAL</p> <p>G GND (Black) V 12V (Yellow) G GND (Blue) E Vsen (White) R RMT (Green) D DIM (Violet) S Rset (Orange)</p> <p>12V OUTPUT P_{out} : 1.5 W I_{out} : 0.100 A V_{out} : Max. 13.2V</p> <p>LED OUTPUT</p> <p>L LED - (Blue) P_{out} : 49 W I_{out} : 1.05A</p> <p>R LED + (Red) V_{out} : 25 - 46V ≐ U_{out} : 59V ≐ (Open Lamp)</p> | <p>Model : ILU600M102U1U Name : PSDV600102U</p> <p>Constant Current Flickerless / Unified Dim. Adjustable Output Current_Rset Low Standby Power Consumption Suitable for Class 2 Wiring</p> <p>Caution Suitable for dry and damp location Install in accordance with national and local electrical code. Use for LED Module only Do not open the case</p> <p>ta: -20 - 50°C tc: 80°C ■ tc</p> <p>SELV</p> <p>CE c E480967</p> <p>Hillsite Am Kronberger Hang 8, 65824 Schwalbach Ts. Germany. www.solu-m.com AS: +82-1588-0502 Made in China Dongguan SOLUM Electronics Co., Ltd.</p> |
|---|--|

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Barcode Label



| Mean | 1.PLANT | 2. YEAR | 3. MONTH | 4. DATE | 5. CODE | 6. SERIAL | 7. Revision No |
|-------|---|---------|-----------|---------|---------|----------------|--|
| Digit | 2 | 2 | 1 | 2 | 3 | 4 | |
| EX. | C1 : DGSM C2 : Solytech C3 : IM C4 : Ap tech K1 : Korea | 00~99 | 1...9,A,B | 01~31 | 254 | 0001.. 9999 | X01~99 : DEVELOPMENT A01~99: MP |

Box Label

| | | | |
|----------------|------------------------------|-------|---------------------------------------|
| Material Code | ILU600M102U1U | | → USER Model Code |
| ITEM | PSDV600102A REV. A** | | → SOLUM Model Code |
| LOT No | ***** | MAKER | → SOLUM LOT NO & Quantity of Products |
| Quantity [PCS] | 30 | SOLUM | |
| EXP. Date | 20**.**.** ~ 20**.**.** | | → Product Date ~ After 5 years |
| | 000000084B001 E601 P0315D001 | | → USER Barcode |

| Digit | Year | Month | Date | Factory | Fixed |
|--------|--------|--------|--------------|---------|----------|
| | 22 | 23 24 | 25 26 | 27 | 28 29 30 |
| P | 0 1 | 0 1 | D | 0 0 1 | |
| N→2015 | 01~12月 | 01~31日 | D : DGSM | | |
| P→2016 | | | S : Solytech | | |
| Q→2017 | | | M : IM | | |
| R→2018 | | | A : Aptech | | |

#6 USER Barcode

| Digit | Quantity Per BOX | | | | | | | | | BOX Size | Serial No. | Blank | Vender Code | Blank | Year | Month | Date | Factory | Fixed | | | | | |
|-------|------------------|---|---|---|---|---|---|---|---|-----------------------|------------|-------|-------------|-------|--------------------------------------|--------|--------|--|-------|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | B | 0 | 0 | 1 | E | 6 | 0 | 1 | P | 0 | 1 | D | 0 | 0 |
| | | | | | | | | | | A : Pallet B : BOX | 001~999 | | | | N→2015 P→2016 Q→2017 R→2018 | 01~12月 | 01~31日 | D : DGSM S : Solytech M : IM A : Aptech | | | | | | |

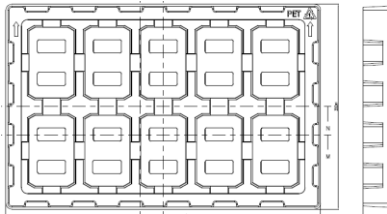
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■ Packing Drawing

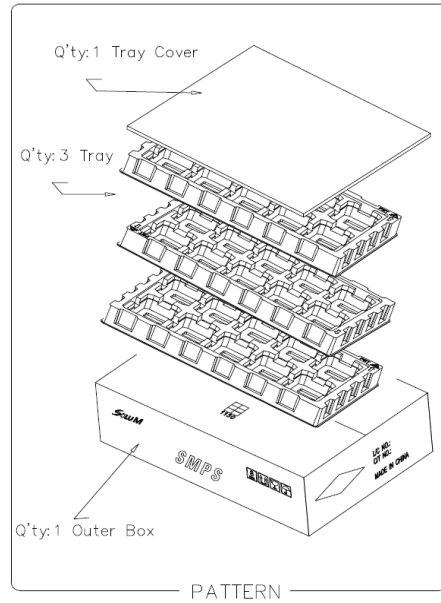
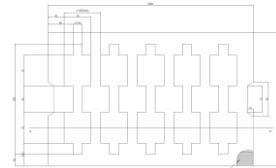
1. Out Box

| | |
|-----------|---------------------------|
| Dimension | 540(L) 355(W) 122(H) [mm] |
| Weight | < 11Kg |
| Quantity | 30EA / 1Box |

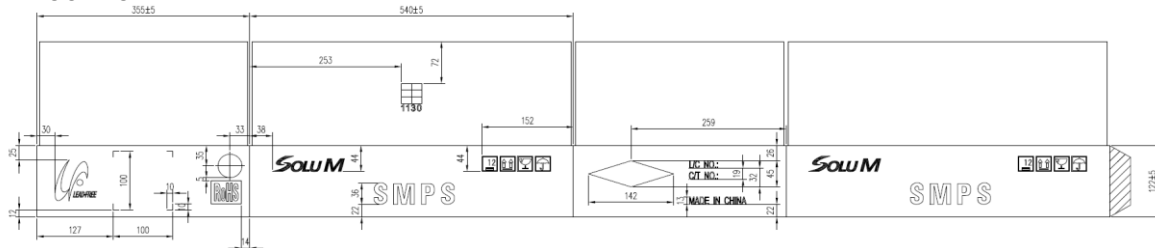
Tray



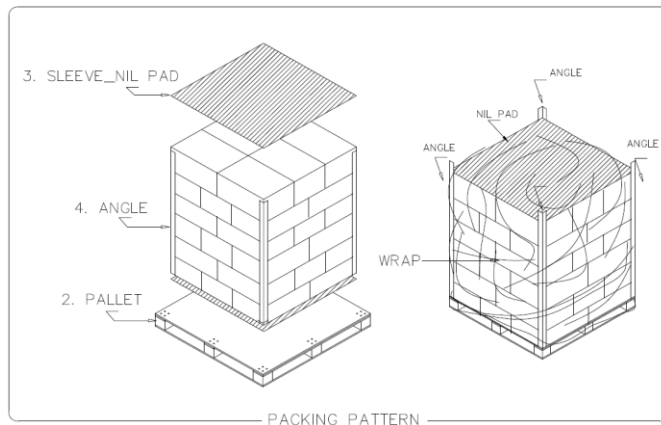
Tray Cover



OUT BOX



2. Pallet



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