SOSEN

# SPECIFICATIONS

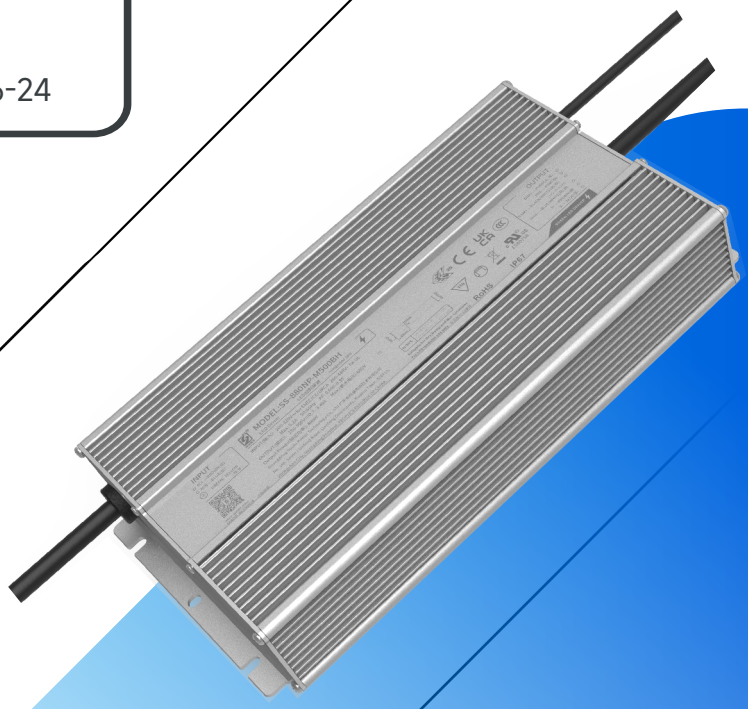
# SS-880NP-M500*
# CC DRIVER

Model: SS-880NP-M500*

Power: 880W

Rev.: V01

Release date: 2026-06-24



# SS-880NP-M Series LED Driver

## Features

- Efficiency up to 97%
- Dimming: 0-10V/PWM/Resistor,DALI-2, DMX-RDM
- Surge protection: CM: 6kV, DM: 6kV
- AUX Power: 12V/0.3A
- Constant Lumen, Life Warning
- External NTC to Protect LED Module
- Standby Power<0.5W
- IP67
- Communication with PC
- Protections: SCP/OTP
- Warranty: 5 years

E360758 IP67 RoHS

## Description

SS-880NP-MXX is 880W non-isolated constant current LED Driver with 180-528Vac input and wide O/P voltage range and adjustable O/P current by program. LED luminaire manufactures can easily design luminaires and reduce cost.
Applications:
Horticulture lighting, Stadium lighting, Fish lighting

## Model List:

| Model | AC Input Range | Max. Pout | Vout Range | Full Power Vo Range | Iout | THD (Typ.) | PF(Typ.) | Eff.(Typ.) | Max.Tc |
|---|---|---|---|---|---|---|---|---|---|
| SS-880NP-M500* | 180-528Vac | 880W | 150-500V | 252-500V | 0.7-3.49A | 8% | 0.95 | 96.5% | 90°C |

Note:
1.Default Tested: at 347Vac, full load, Ta 25°C;
2. The performance of the LED Driver can be guaranteed within the full power Vo range. The voltage lower than full power Vo range, it is need to test the performance with the LED module ;



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## “*” Means Additional Function

| "*" | DMX (suffix:X) | DALI (suffix:D) | AUX 12V (suffix:H) | NTC (suffix:N) | Timing | 0-10V/PWM Dim /Resistor (suffix:B) | Output-Ground | Remark |
|---|---|---|---|---|---|---|---|---|
| BH | | | ✓ | | ✓ | ✓ | | |
| BHN | | | ✓ | ✓ | ✓ | ✓ | | |
| DH | | ✓ | ✓ | | ✓ | | | |
| DHN | | ✓ | ✓ | ✓ | ✓ | | | |
| XH | ✓ | | ✓ | | ✓ | | | |
| XHN | ✓ | | ✓ | ✓ | ✓ | | | |
| BH-G | | | ✓ | | ✓ | ✓ | ✓ | |
| BHN-G | | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| DH-G | | ✓ | ✓ | | ✓ | | ✓ | |
| DHN-G | | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| XH-G | ✓ | | ✓ | | ✓ | | ✓ | |
| XHN-G | ✓ | | ✓ | ✓ | ✓ | | ✓ | |



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## Input Characteristics:

| Parameter | Min. | Typ. | Max. | Remark |
|---|---|---|---|---|
| Rated AC Input Range | 200Vac | | 277Vac | <Ta:45℃ |
| | 277Vac | | 480Vac | <Ta:50℃ |
| AC Input Range | 180Vac | | 528Vac | |
| Input Frequency Range | 47Hz | 50/60Hz | 63Hz | |
| Max Input Current | | | 5.2A | 200Vac |
| Max Input Power | | | 1040W | 200Vac |
| Max Inrush Current(220Vac) | | | 15A | Cold start |
| Max Inrush Current(347Vac) | | | 20A | Cold start |
| Max Inrush Current(400Vac) | | | 25A | Cold start |
| Max Inrush Current(480Vac) | | | 25A | Cold start |
| Standby Power | | | 0.5W | 230Vac/50Hz, Dim-off |
| Power Factor | 0.95 | 0.97 | | 220Vac/50Hz, Full load |
| | 0.90 | | | 200-480Vac, 70-100% load |
| THD | | 8% | 10% | 347Vac/60Hz, Full load |
| | | | 20% | 200-480Vac, 70-100% load |



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## O/P Characteristics:

| Parameter | Min. | Typ. | Max. | Remark |
|---|---|---|---|---|
| O/P Voltage Range | 150V | | 500V | Power derated @150-252V |
| Rated O/P Voltage | 252V | | 500V | Po=Vo*Io=880W, Full load |
| Rated O/P Current | 1.76A | | 3.49A | 3.49A for 252V,1.76A for 500V |
| Adj. O/P Current (AOC)Range | 0.7A | | 3.49A | Adjustable by program |
| No Load Voltage | | | 600V | |
| Efficiency @220Vac | 92.0% | 94.0% | | O/P 500V/1.76A |
| Efficiency @347Vac | 95.0% | 96.5% | | O/P 500V/1.76A |
| Efficiency @400Vac | 95.0% | 97.0% | | O/P 500V/1.76A |
| Efficiency @480Vac | 95.0% | 97.0% | | O/P 500V/1.76A |
| O/P Current Tolerance | -5% | | +5% | |
| O/P Current Ripple(PK-AV) | | 5% | 10% | Full load |
| Start-up Current Overshoot | | | 10% | Full load |
| Start-up Time | | | 0.5S | 230Vac,Full load，BH model |
| | | | 0.7S | 230Vac,Full load, DH model |
| | | | 1.0S | 230Vac,Full load, XH model |
| Line Regulation | -2% | | +2% | Full load |
| Load Regulation | -2% | | +2% | |
| Temperature Coefficient | -0.03%/°C | | +0.03%/°C | Tc:0°C~90°C |
| OTP | 90°C | 95°C | 110°C | Drop current when OTP, and it can be automatically restored after the abnormality is removed. |
| Short Circuit Protection | | | | Driver will not be damaged, Constant current mode |
| Strobe Function | | | | Support the 0.1-44fps strobe Order from100% dimming to 0% change,XH model |



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## Other Characteristics:

| Parameter | | Min. | Typ. | Max. | Remark |
|---|---|---|---|---|---|
| AUX Power | O/P Voltage | 10.8V | 12V | 13.8V | |
| | O/P Current | | | 300mA | |
| 0-10V Dimming (Optional) | Dim Vmax | 0V | | 12V | |
| | Dim Range | 10%loset | | 100%loset | DIM+ source current 110uA . |
| | Rec.Dim Range | 0V | | 10V | Dimming prohibits reverse connection. |
| PWM Dimming (Optional) | PWM High | 9.8V | | 10.2V | |
| | PWM Low | 0V | | 0.3V | DIM+ source current 110uA . |
| | Frequency | 1KHz | | 2KHz | Dimming prohibits reverse connection. |
| | PWM Duty | 0% | | 100% | |
| Resistor Dimming (Optional) | Resistance | 0Kohm | | 100Kohm | |
| | Dim Range | 10% | | 100% | DIM+ source current 110uA . |
| Dim to Off | Dim off | 7% | 8% | 9% | By DC voltage, PWM, resistance dimming ratio |
| | Dim on | 9% | 10% | 12% | By DC voltage, PWM, resistance dimming ratio |
| DALI Dimming Level | | 1-170(10%) | | 254(100%) | |
| DMX Dimming Level | | 10% | | 100% | |
| NTC Founction(Optional) | | By programming | | | External resistance value 10K Ω, B value 3950 or 3435 NTC thermistor, set parameters through corresponding programs |
| Timing Curve(Optional) | | By programming | | | Set by program |
| DALI Dimming(Optional) | | Meet DALI-2 | | | |
| Constant Lumen(Optional) | | By programming | | | Set by program |
| Life Warning(Optional) | | By programming | | | Set by program |
| Life Time(Tc≤75°C) | | 50,000 hours | | | 80% Load, 347Vac |
| MTBF | | 199,895 hours | | | 347Vac,Full load, Ta=25°C (MIL-HDBK-217F) |
| IP Grade | | IP67 | | | |
| Tc | | 90°C | | | |
| Warranty | | 5 years | | | Tc: 75°C |
| Net Weight | | 2500g | | | |
| Dimension | | 252mm*125mm*44.5mm | | | L x W x H |

NOTE: 1,All the parameters above are tested Ta 25°C and LED load, unless specified.
2. When using resistor dimming (parallel connection of dimming wires), if the number of parallels is: N, the dimming resistor should be realized 0-100% dimming range, resistance value: 91KΩ/N.



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## Environmental Requirements

| Parameter | Min. | Typ. | Max. | Remark |
|---|---|---|---|---|
| Operating Temperature(Tcase) | -40℃ | 25℃ | +90℃ | |
| Storage Temperature | -40℃ | 25℃ | +90℃ | |
| Operation Humidity | 10%RH | | 90%RH | |
| Storage Humidity | 5%RH | | 95%RH | |
| Altitude | -65m | | 4000m | |

## Safety and EMI/EMS Standards

| Certification | Standard | Status | Remark |
|---|---|---|---|
| UL | UL8750 | ✓ | |
| CUL | CAN/CSA C22.2 No.250.13 | ✓ | |
| ENEC | EN 61347-1<br>EN 61347-2-13<br>EN IEC 62384 | ✓ | |
| RCM | AS/NZS61347.2.13 | | |
| CCC | GB/T 19510.1<br>GB/T 19510.213 | ✓ | |
| UKCA | EN 61347-1<br>EN 61347-2-13<br>EN 62493 | ✓ | |
| CE | EN 61347-1<br>EN 61347-2-13<br>EN 62493 | ✓ | |
| | EN 301 489-1<br>EN 301 489-3<br>EN 300 330<br>EN 62479/EN 50663/EN 50665/EN 50364 | | For NFC wireless products |



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## Safety and EMI/EMS Standards

| EMI/EMS | Standard | Status | Remark |
|---|---|---|---|
| Conduction Emission | EN IEC 55015 | ✓ | |
| | GB/T 17743 | | |
| | FCC Part 15 Subpart B;ANSI C63.4 | | ClassB |
| Radiation Emission | EN IEC 55015 | ✓ | |
| | GB/T 17743 | | |
| | FCC Part 15 Subpart B;ANSI C63.4 | | ClassB |
| Harmonic Current Emissions | EN IEC 61000-3-2 | ✓ | ClassC |
| | GB 17625.1 | | ClassC |
| Surge | IEC/EN61000-4-5 | ✓ | DM:6kV,CM:10kV,Criterion B |
| | ANSI/C82.77-5 | ✓ | DM:6kV,CM:6kV,Criterion B |
| Ring Wave | IEC/EN 61000-4-12 | ✓ | DM:6kV,CM:6kV,Criterion B |
| | ANSI/C82.77-5 | ✓ | DM:6kV,CM:6kV,Criterion B |



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## Safety Test Items:

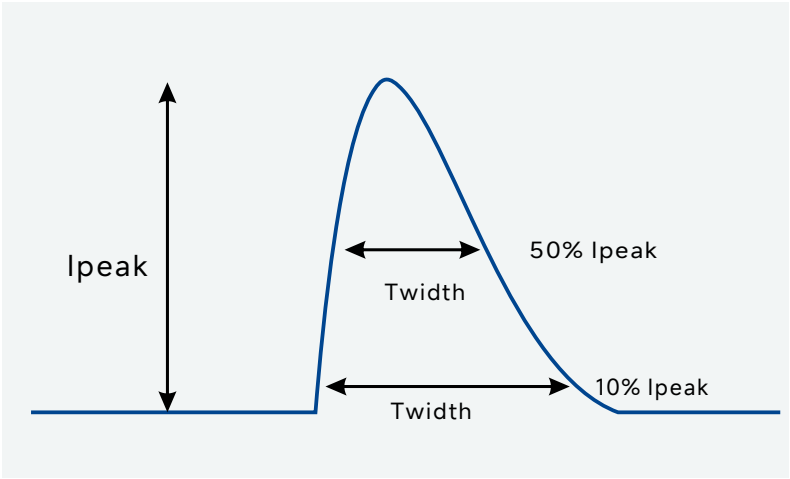
| Safety Test Items | Technical Indicators | | | Remark |
|---|---|---|---|---|
| Insulation Requirements | UL Insulation Requirements | ENEC Insulation Requirements | CCC Insulation Requirements | |
| Input-Case | 2U+1000 | 2U+1000 | 2U+1000 | Basic insulation |
| Input-Dim | 2U+1000 | 4U+2000 | 4U+2000 | Reinforced insulation<br>B model and X model |
| | 2U+1000 | 2U+1000 | 2U+1000 | Basic insulation D model |
| Dim-Case | 500Vac | 500Vac | 500Vac | Basic insulation<br>B model and X model |
| | 500Vac | 2U+1000 | 2U+1000 | Basic insulation<br>D model |
| Insulation Resistance | ≥10MΩ | | | Input-DIM,Test voltage:500Vdc |
| Ground Resistance | ≤0.1Ω | | | 25A/1min |
| Leakage Current | ≤0.75mA | | | 480V |

NOTE:

1. SOSEN warrants the LED Driver itself complies with EMC standard. However, LED Driver's EMC should be re-checked when integrated into lighting systems due to unexpected interference as component.
2. Please short (ACL and ACN), (V+ and V- ), (Dim+ and Dim - and Vaux+ ) when Hi-pot test (Turn off ARC ) .
3. When applying withstand voltage to ground, the input and output lines need to be short-circuited together.

## Performance Curves:

### Input Inrush Current




| Vin | Ipeak | T(@10% of Ipeak) | T(@50% of Ipeak) |
|---|---|---|---|
| 220Vac | 15A | 8ms | 5ms |
| 347Vac | 20A | 7ms | 4ms |
| 400Vac | 25A | 12ms | 4ms |
| 480Vac | 25A | 7ms | 4ms |



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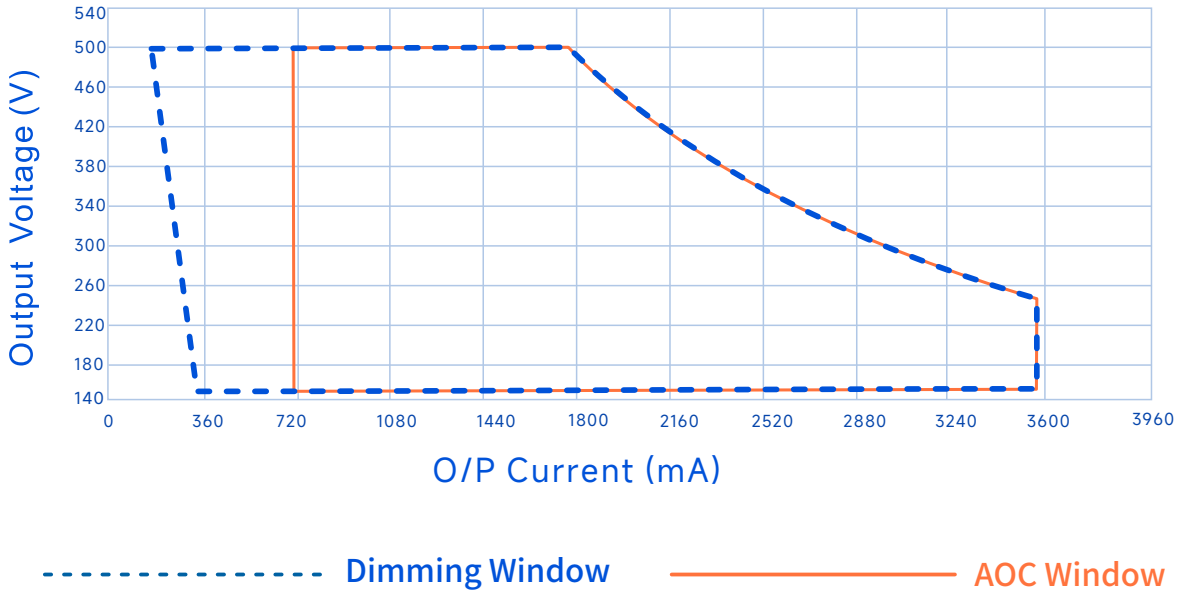
## Performance Curves:

O/P Voltage Vs. O/P Current(Dim/AOC Window)



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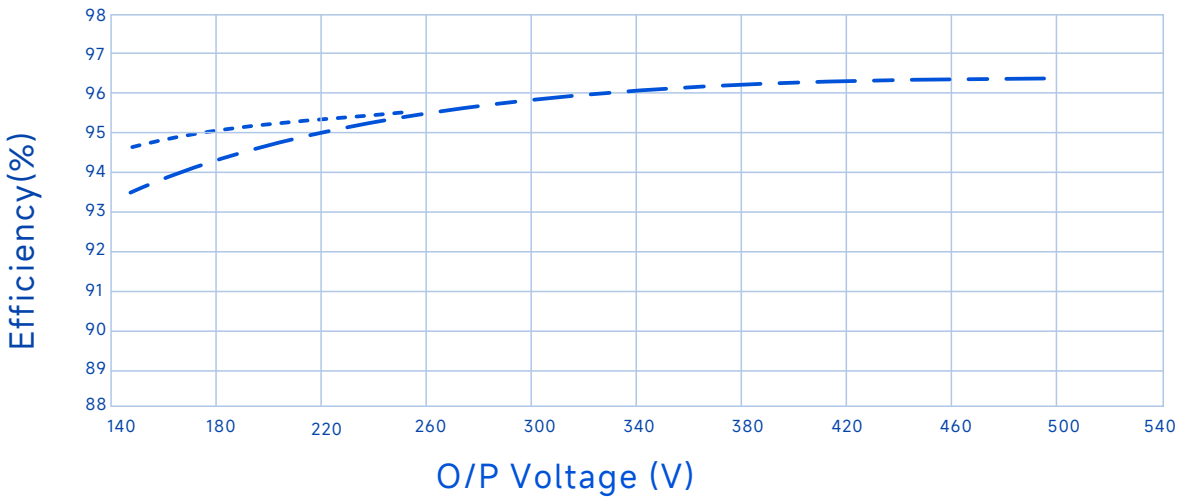
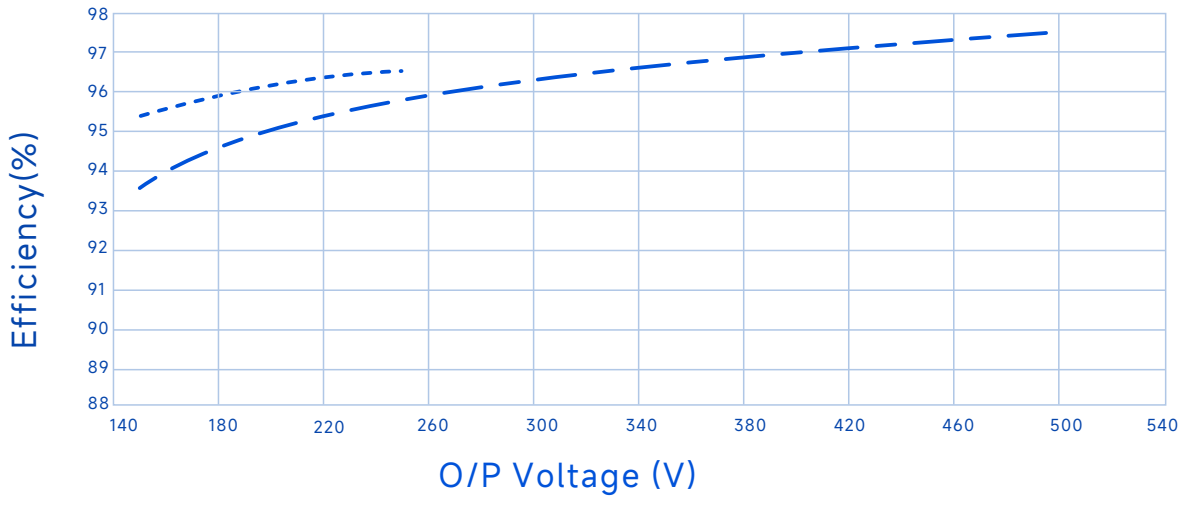
## Performance Curves:

Efficiency Vs. O/P Voltage (Vin=220Vac)




------- Io=3490mA — — — Io=1760mA

Efficiency Vs. O/P Voltage (Vin=347Vac)




------- Io=3490mA — — — Io=1760mA



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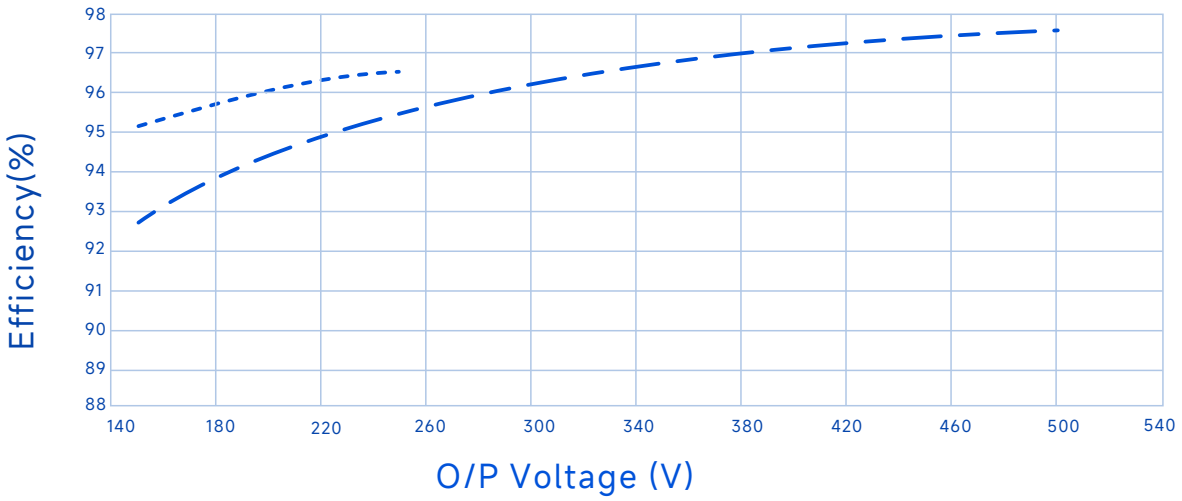
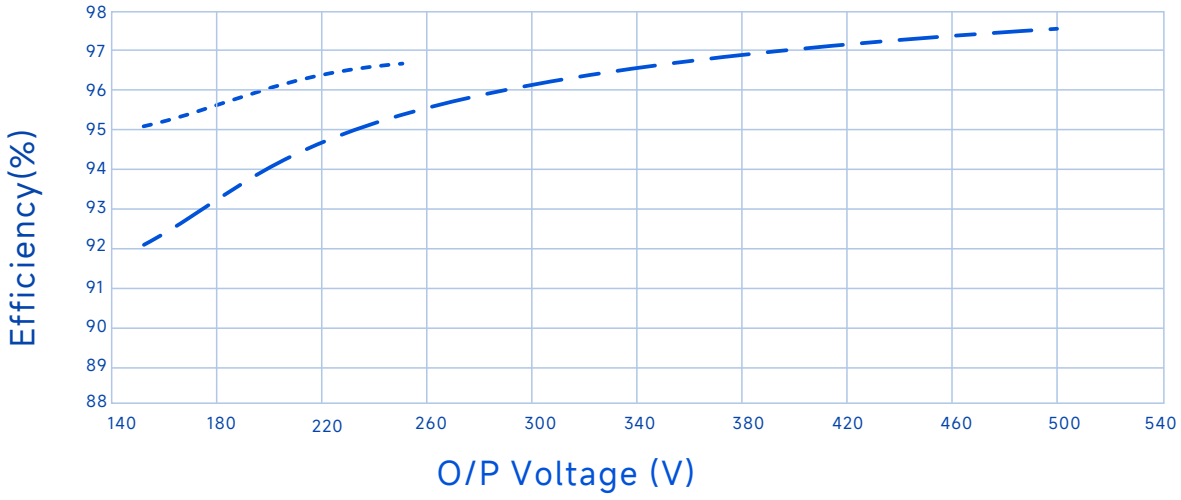
## Performance Curves:

Efficiency Vs. O/P Voltage (Vin=400Vac)




------- Io=3490mA — — — Io=1760mA

Efficiency Vs. O/P Voltage (Vin=480Vac)




------- Io=3490mA — — — Io=1760mA



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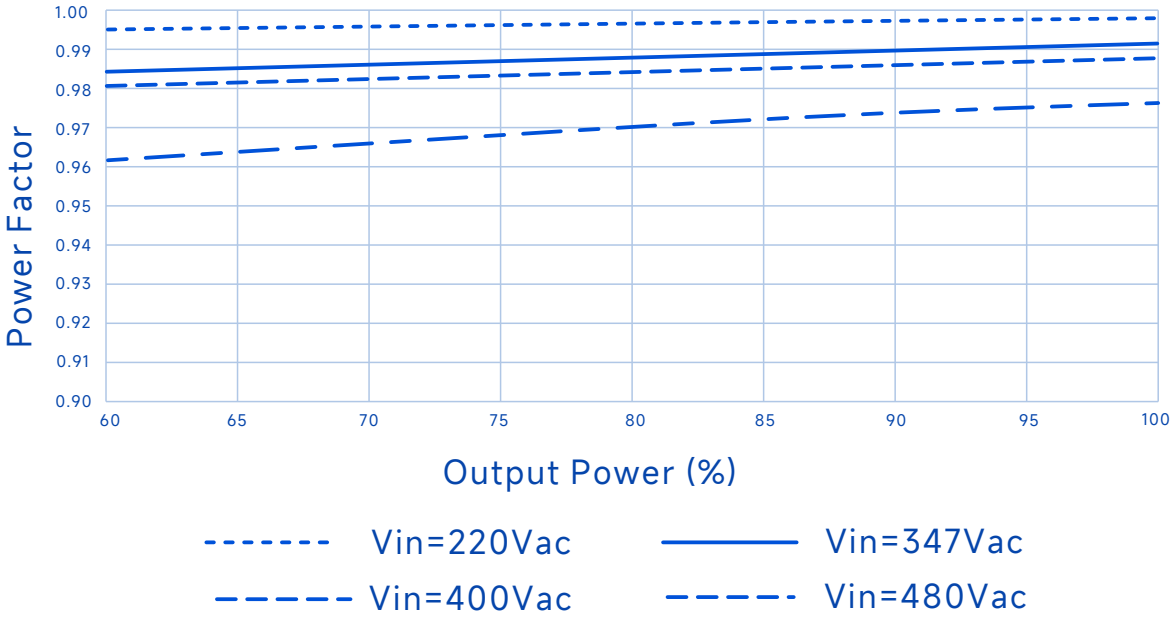
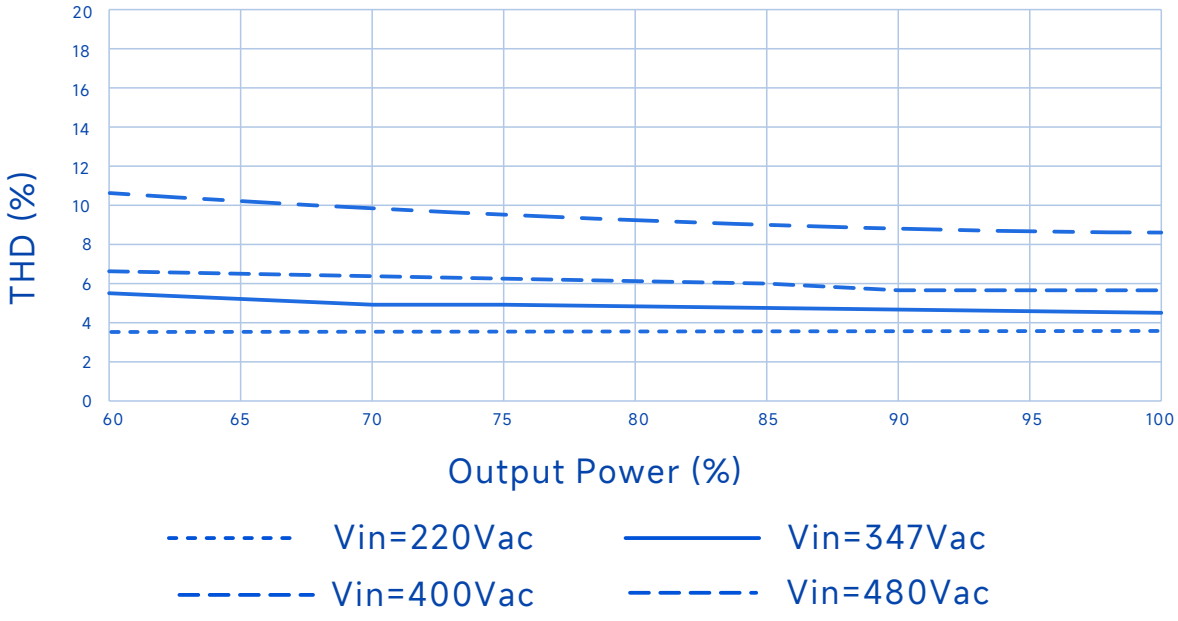
## Performance Curves:

### Power Factor Vs. O/P Power




### THD Vs. O/P Power



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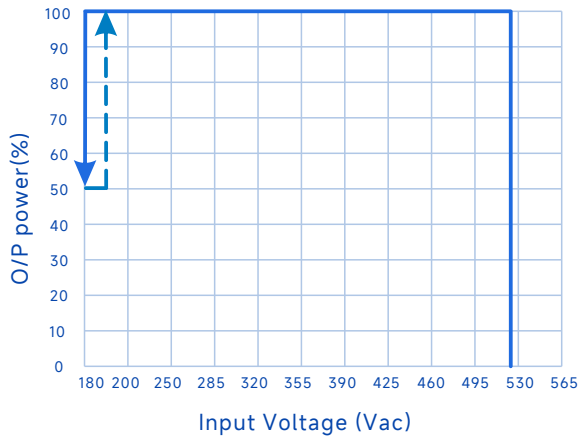
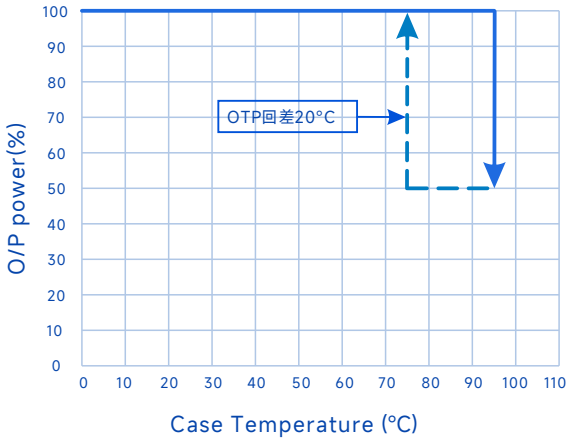
## Performance Curves:

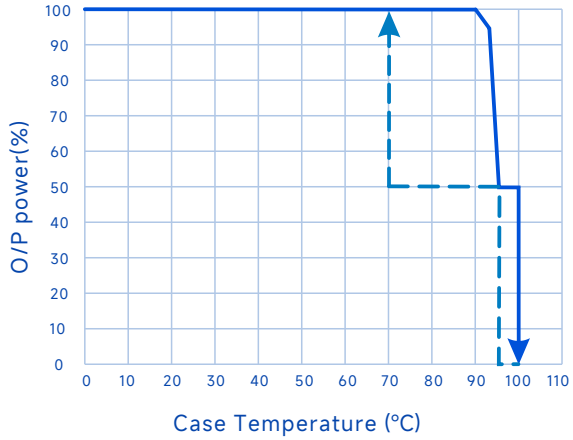
### O/P Power Vs. Input Voltage



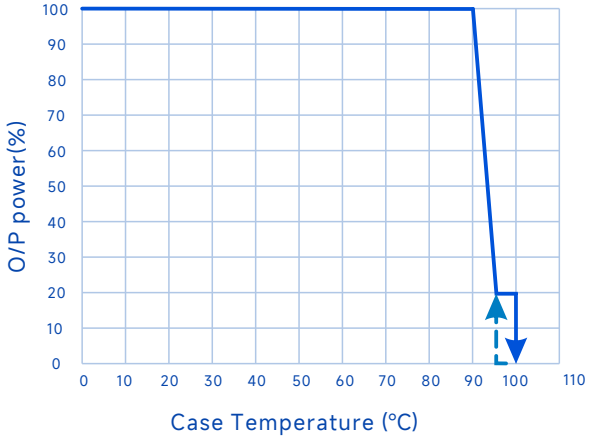

### O/P Power Vs. Case Temperature (B model)



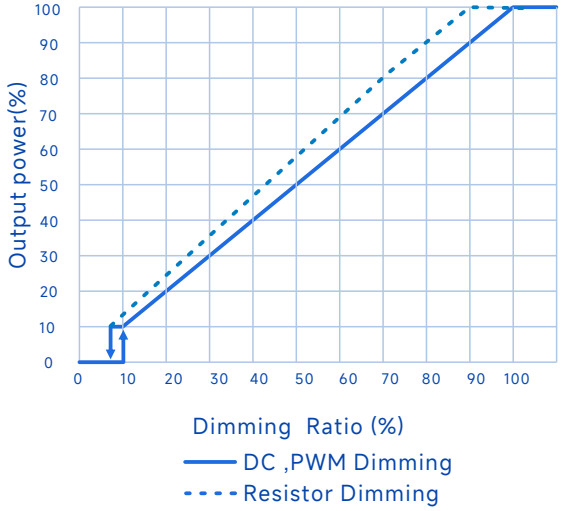

### O/P Power Vs. Case Temperature (X model)



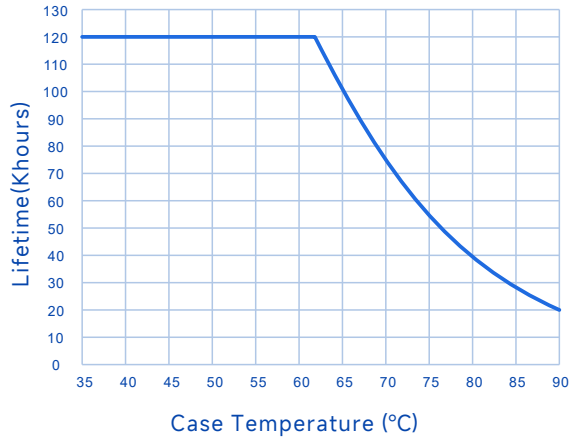

### O/P Power Vs. Case Temperature (D model)




### O/P Power Vs. Dimming(B model)




### Lifetime Vs. Case Temperature



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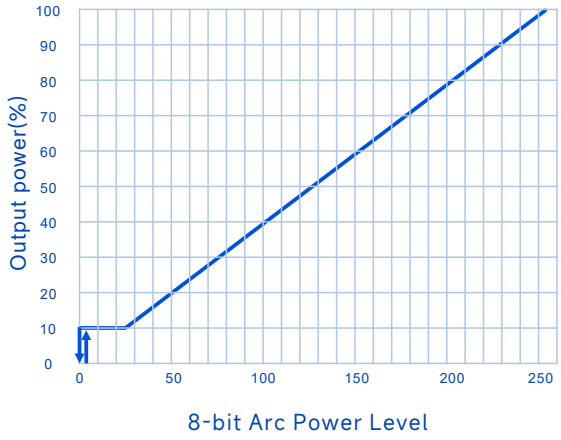
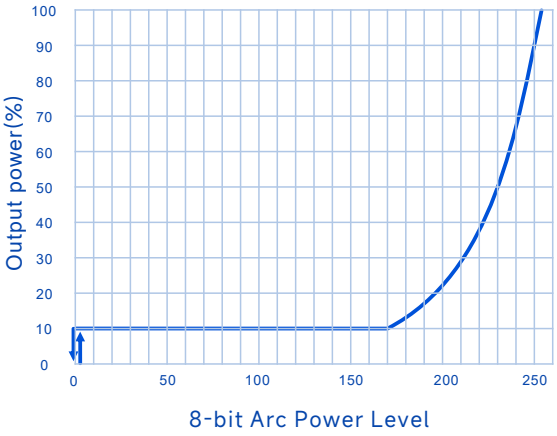
## Performance Curves:

### Linear Dimming Curve: (DALI-2/DMX Model




### Logarithmic Dimming Curve: (DALI-2/DMX Model



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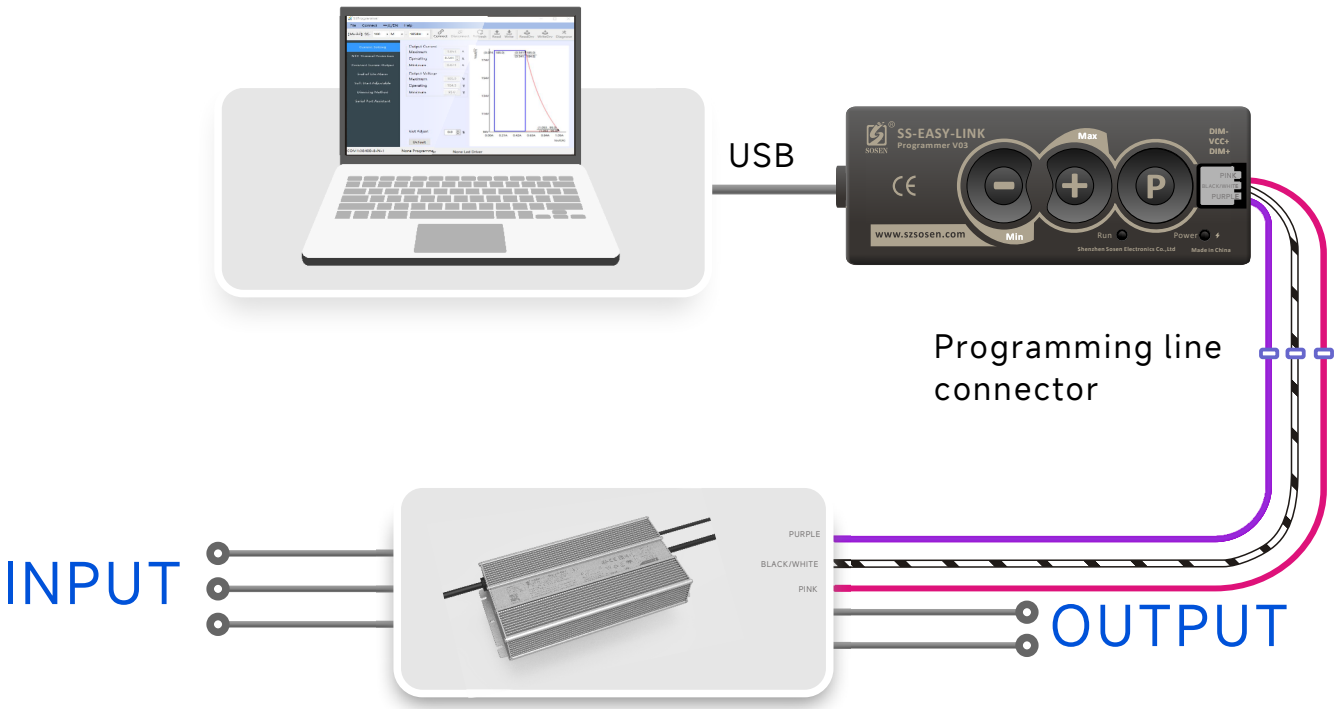
# Programming connection diagram① BH model

Legacy Timer: Driver's O/P follows the pre-programmed timing curve after turn-on.
Auto-Adjust by Percentage: Driver's O/P will be adjusted by automatically changed dimming curve by the period percentage based on the latest 5 dimming curve.
Auto-Adjust by Mid-point: Driver's O/P will be adjusted by automatically changed dimming curve by mid-point based on the latest 5 dimming curve.




1.During programming, the driver does not need to be powered on to achieve all programming functions.
2.For a driver that is powered on and in use, all programming functions can be performed without needing to disconnect the power.
3.It can operate independently of a PC to achieve offline programming.

# Constant Lumen Output

Constant Lumen Output are design to maintain fixture's stable output lumen by increasing driver's output current within driver's life span to counteract LED lumen degradation.



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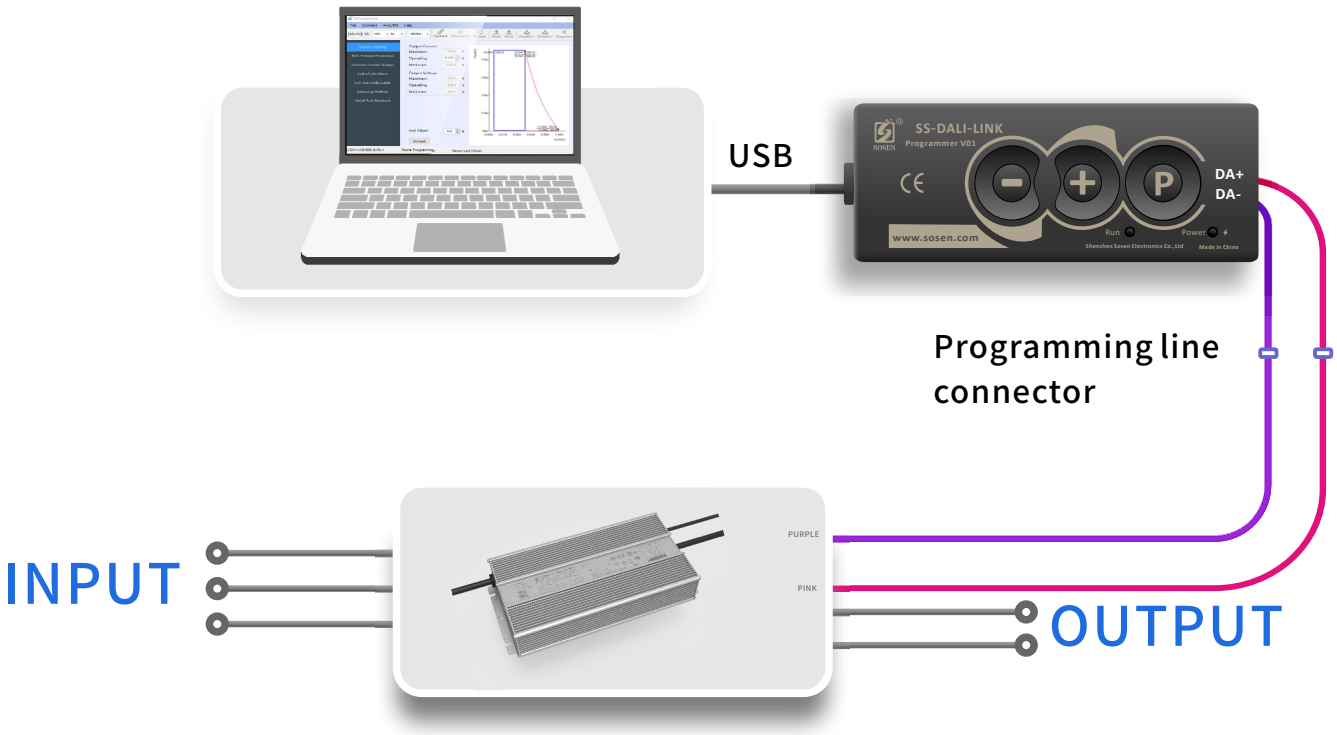
# Programming connection diagram② DH model

Legacy Timer: Driver's O/P follows the pre-programmed timing curve after turn-on.
Auto-Adjust by Percentage: Driver's O/P will be adjusted by automatically changed dimming curve by the period percentage based on the latest 5 dimming curve.
Auto-Adjust by Mid-point: Driver's O/P will be adjusted by automatically changed dimming curve by mid-point based on the latest 5 dimming curve.

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Constant Lumen Output are design to maintain fixture's stable output lumen by increasing driver's output current within driver's life span to counteract LED lumen degradation.



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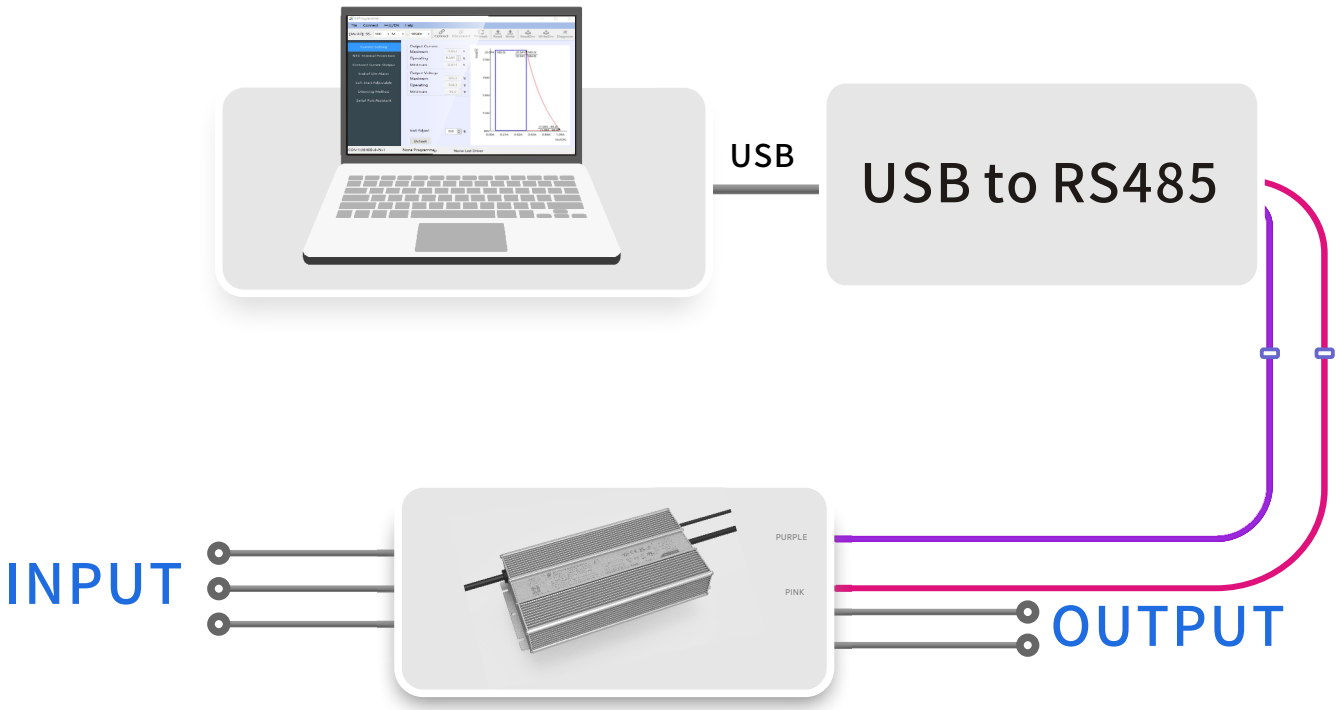
# Programming connection diagram③
# XH model

Legacy Timer: Driver's O/P follows the pre-programmed timing curve after turn-on.
Auto-Adjust by Percentage: Driver's O/P will be adjusted by automatically changed dimming curve by the period percentage based on the latest 5 dimming curve.
Auto-Adjust by Mid-point: Driver's O/P will be adjusted by automatically changed dimming curve by mid-point based on the latest 5 dimming curve. XH model can be programmed with RS485 modules.




1.During programming, the driver does need to be powered on to achieve all programming functions.
2.For a driver that is powered on and in use, all programming functions can be performed without needing to disconnect the power.
3.It can operate independently of a PC to achieve offline programming.

**Note:**

1.The drive needs to be powered on during programming.
2.For best performance, a characteristic impedance of 120 ohms should be maintained for the entire length of the control line.



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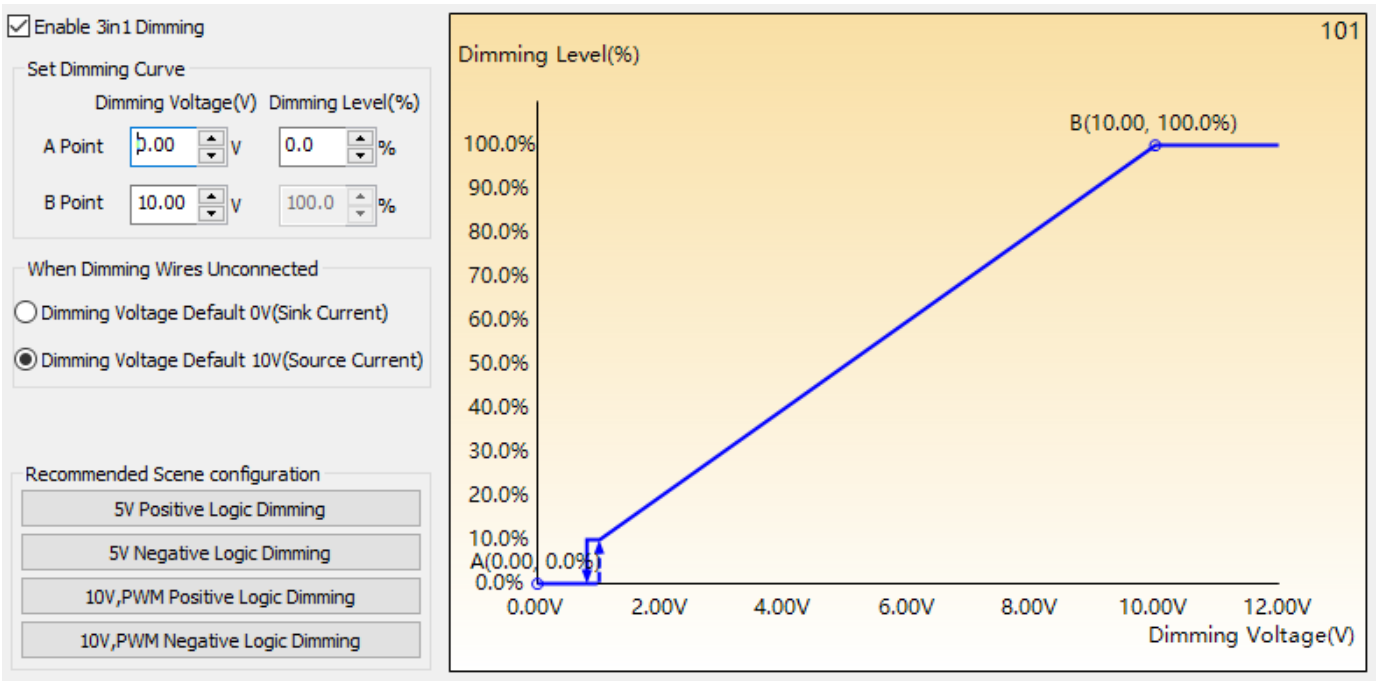
| Parameter | | | Remark |
|---|---|---|---|
| Default setting | Positive logic dimming (0-10V) | Dimming voltage default 10V (source current) | |
| | Negative logic dimming (10-0V) | Dimming voltage default 0V (sink current) | |
| Dimming optional function | Positive logic dimming (0-10V) | Dimming voltage default 0V (sink current)<br>Resistance dimming not available | When the dimming wire is not connected, the LED driver output is the minimum (to be noted in the order) |
| | | | For parallel dimming applications with multiple LED drivers, it is recommended to use the sink current mode (to be noted in the order) |

Note:
Select "Dimming voltage defaults to 10V (source current)" / "Dimming voltage defaults to 0V (sink current)", which needs to be set according to the dimmer used by the end user.

## Settings Interface



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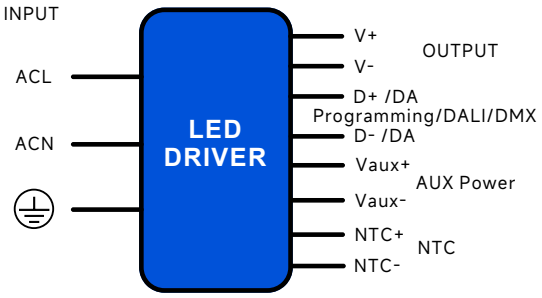
## Mechanical Characteristics




### AC Input Cable(Exposed Length 450±10mm):

Global model: SOOW,3*17AWG,O.D: 9.8mm,Brown:L,Blue:N,Yellow/Green:⏚

### DC O/P Cable(Exposed Length 250±10mm):

Global model: SOOW,2*17AWG,O.D: 9.3mm,Brown:V+ Blue:V-
Global model:SOOW,3*17AWG,O.D:9.8mm,Brown:V+,Blue:V-,
Yellow/Green:GND(Suffix-G) ⏚

### XH/DH Model DIM/AUX Power/Programming Cable (Exposed Length 220±10mm):

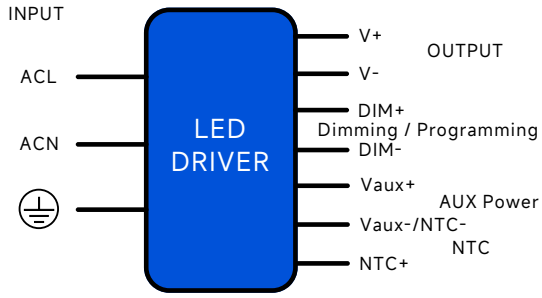
UL model: STYLE 21996, 4*22AWG , O.D: 5.6mm Purple D+/DA, Pink: D-/DA,
Black/White: Vaux+, Blue/White: Vaux-

### XHN/DHN Model DIM/AUX Power/Programming Cable (Exposed Length 220±10mm):

UL model:STYLE21996,4*22AWG,O.D:5.6mm,Purple:D+/DA,Pink:D-/DA,
Black/White:Vaux+,Blue/White:Vaux-

### NTC Cable(Exposed Length 220±10mm):

Global model:SJOW,2*17AWG,O.D:7.7mm,Brown:NTC+,Blue:NTC-




### AC Input Cable(Exposed Length 450±10mm):

Global model: SOOW,3*17AWG,O.D: 9.8mm,Brown:L,Blue:N,Yellow/Green:⏚

### DC O/P Cable(Exposed Length 250±10mm):

Global model: SOOW,2*17AWG,O.D: 9.3mm,Brown:V+ Blue:V-
Global model:SOOW,3*17AWG,O.D:9.8mm,Brown:V+,Blue:V-,
Yellow/Green:GND(Suffix-G) ⏚

### BH Model DIM/AUX Power/Programming Cable (Exposed Length 220±10mm):

UL model: 21996, 4*22AWG , O.D: 5.6mm Purple DIM+, Pink: DIM-,
Black/White: Vaux+, Blue/White: Vaux-

### BHN Model DIM/AUX Power/Programming/NTC Cable (Exposed Length 220±10mm):

UL model: 21996, 5*22AWG , O.D: 6.0mm Purple DIM+, Pink: DIM-,
Black/White: Vaux+, Blue/White: Vaux-/NTC-, Red/White: NTC+



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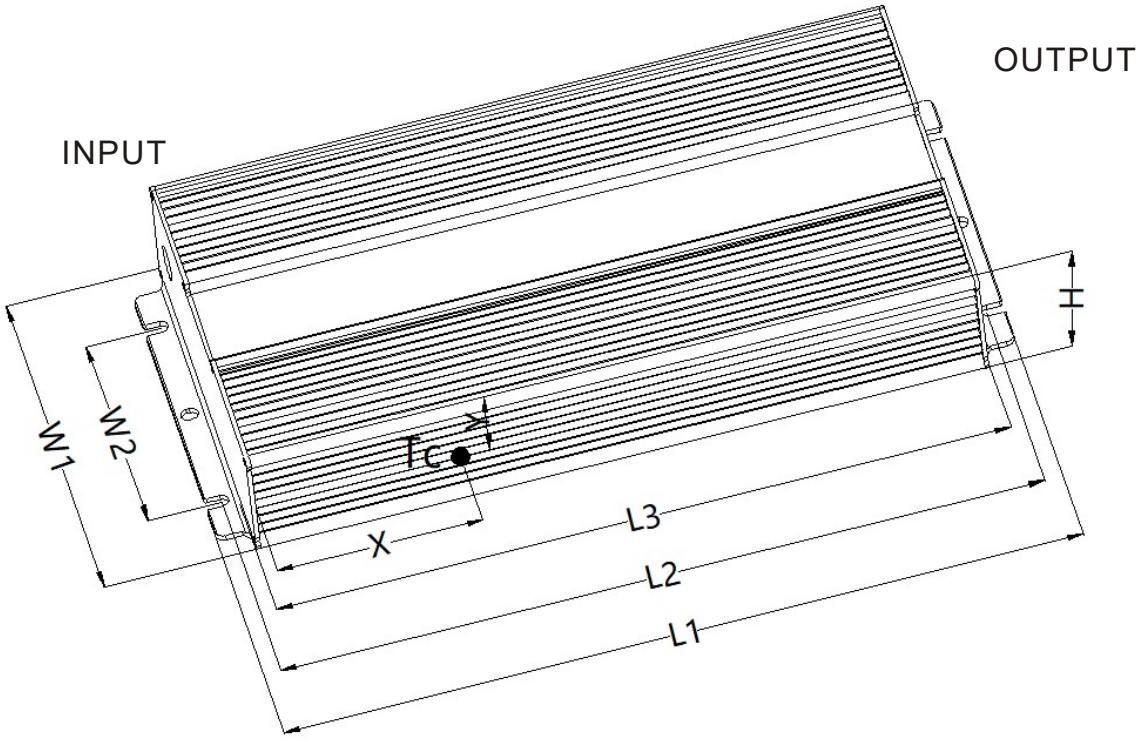
## Mechanical Characteristics

| Name Description | Standard Code | mm(In.) |
|---|---|---|
| Case Length | L3 | 230(9.06) |
| Case Width | W1 | 125(4.92) |
| Case Height | H | 44.5(1.75) |
| Overall Length | L1 | 252(9.92) |
| Mounting Hole Length | L2 | 241(9.49) |
| Mounting Hole Width | W2 | 78(3.07) |
| TC Point Position | X | 60(2.36) |
| TC Point Position | Y | 20(0.78) |

Note
1,Please follow the "LED Driver User Manual" obtained from SOSEN's official website for assembly.
2,AC Input Cable,DC O/P Cable,DIM/AUX Power/Programming Cable: Peeled length of cable:43±5mm, Tinned length of wire:10±2mm



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## Assembly Tips

1. Dimming or AUX Power tinned connectors should be capped if not used to avoid dimming or AUX Power parts damage from external signals.
2. Safety space between aluminum base and LED coppers >5.6mm.
3. Safety space/coppers between LED+ and LED- ⩾3.6mm.
4. Minimize the copper area on the aluminum PCB to reduce parasitic capacitance and leakage current.
5. It is recommended to design LED beads in parllel first and then in series.
6. The insulation level of LED light panels should meet the reliability design requirements.
7. It's recommended to add resistors or capacitors in parallel with the LED on PCB to reduce the risk of surge when a non isolated LED driver is used for the luminaire
8. For other precautions, please refer to the "LED Driver User Manual".

## Package

- Outside carton dimension: L×W×H =495mm×385mm×162mm;
- 6PCS/Carton;
- Net weight/Piece: 2.5kg;Gross weight/Carton: 16.8kg;
- Please refer to the product name, model number, manufacturer identification, QC PASS, manufacturing date on the package.

## Transportation

Packaging is designed suitable for transportation by trucks, vessels and flights. The products should be avoided direct sunlight and rain, loaded/unloaded with caution.

## Storage

The product storage meets the standard of the GB 3873-83.

Products should be rechecked if stored for over 1 year before assembly.

## RoHS

Products comply with RoHS Directive (2011/65/EU) and amendment 2015/863/EU.



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# Revision History

| Version | Description of Update | Updated Date | Remark |
|---|---|---|---|
| V00 | Original Release | 2025/06/17 | |
| V01 | Modify the tinning stripping length of the wire | 2026/06/24 | |
| | | | |
| | | | |
| | | | |



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