

## Description

S6-1K5Y500 series is specially designed for sports Lighting and industrial lighting applications. It is constant current LED driver that operates from 220-400Vac with DMX&DALI-2 programming dimming function. This Rectangle integrated structure enables it to have a better heat dissipation cooler, significantly improving reliability and extending product life. To ensure trouble free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature. The better thermal design and high efficiency enable the driver to operate with high reliability, and extending product lifetime. Overall protection is provided against lightning surge, output over voltage, short circuit, and over temperature, to ensure low failure rate.



## Product Features

- Input voltage range: 198~440Vac;
- Constant current design;
- DMX -RDM control optional, Support RDM control mode & controller address setting;
- Support flashing function with maximum of 6 flashes per second;
- Non-Isolated Class I Driver;
- Efficiency up to 97%;
- 3\*500W channels independently output;
- DMX&DALI-2 control interface;
- Dim-to-off; No glow after Dim-to-off;
- Max remote distance 300 meters;
- Surge protection: 10KV line-line, 10KV line-earth @2Ω;
- Multiple protection: SCP, OVP, OTP;
- IP66, IK08 design for indoor and outdoor applications;
- 5 years warranty.

## Application

Stadium lighting  
Area and flood lighting  
High-bay lighting

## Models

| Model Number | Input Voltage Range(Vac) | Max Output Power(W) | Output Voltage Range(Vdc) | Full Power Output Current Range(Vdc) | Default Current(A) | Eff.(Typ.) | PF(Typ.) | THD(Typ.) |
|--------------|--------------------------|---------------------|---------------------------|--------------------------------------|--------------------|------------|----------|-----------|
| S6-1K5Y500   | 198-440                  | 1500W<br>(500W x3)  | 260-500                   | (1.0~1.4A)*3                         | 1.20A*3            | 97%        | 0.95     | 6%        |

### NOTES:

[1]. Y=D means DALI-2, Y=R means DMX-RDM.

[2]. All specifications are measured at 25°C ambient temperature, input voltage 400Vac, and the typical value tested at full load, if no specific note.

## Input Specifications

| Parameter                      | Min    | Typ.                | Max                  | Notes  |
|--------------------------------|--------|---------------------|----------------------|--|
| Input Voltage Typ.             | 220Vac | 230/277/347/400Vac  | 400Vac               |  |
| Input Voltage Range            | 198Vac | -                   | 440Vac               | Refer to Output Power vs. Input Voltage curve. |
| Input Frequency AC             | 47Hz   | 50/60Hz             | 63Hz                 |  |
| Max Input Current              | -      | -                   | 8.0A                 | 220Vac&Full Load.                              |
| Max Input Power                | -      | -                   | 1600W                | 220Vac&Full Load.                              |
| Protective Conductor Current   | -      | -                   | 3.5mA                | 220~400Vac/60Hz;IEC 60598-1;                   |
| Inrush Current                 | -      | 0.8A <sup>2</sup> S | 1.0 A <sup>2</sup> S | 400Vac, full load,50%~50% peak pulse duration. |
| Inrush Current                 | -      | 30A                 | 35A                  | 400Vac&Full Load, Cold Start.                  |
| Power Factor(PF)               | 0.97   | 0.99                | -                    | 220-277Vac, 50/60Hz, 100% Load.                |
| Power Factor(PF)               | 0.93   | 0.95                | -                    | 347Vac, 50/60Hz, 100% Load.                    |
| Power Factor(PF)               | 0.92   | 0.94                | -                    | 400Vac, 50Hz, 100% Load.                       |
| Power Factor(PF)               | 0.94   | 0.96                | -                    | 220-277Vac, 50/60Hz, 80% Load.                 |
| Power Factor(PF)               | 0.91   | 0.93                | -                    | 347Vac, 50/60Hz, 80% Load.                     |
| Power Factor(PF)               | 0.90   | 0.92                | -                    | 400Vac, 50Hz, 80% Load.                        |
| Total Harmonic Distortion(THD) | -      | 5%                  | 15%                  | 220-400Vac, 50/60Hz, 100% Load.                |
| Total Harmonic Distortion(THD) | -      | 10%                 | 20%                  | 220-400Vac, 50/60Hz, 70%-100% Load.            |
| MCB(B16)                       | -      | 3                   | -                    | 220Vac.  |

## Output Specifications

| Parameter                           | Min    | Typ. | Max                   | Notes   |
|-------------------------------------|--------|------|-----------------------|---|
| Output Voltage Range                | 260Vdc | -    | 500Vdc                | The full power cannot be lower than 333Vdc.   |
| Open Circuit Voltage                | -      | -    | 600Vdc                |   |
| Output Current range                | 0%     |      | 100% I <sub>max</sub> | Dim to off without afterglow.   |
| Output Current range                | 0.50A  |      | 1.40A                 | Programmable current range by DALI / DMX programmer.  |
| Full Power Current Range V1+/V-     | 1.00A  | -    | 1.40A                 | Common negative pole.   |
| Full Power Current Range V2+/V-     | 1.00A  | -    | 1.40A                 | Common negative pole.   |
| Full Power Current Range V3+/V-     | 1.00A  | -    | 1.40A                 | Common negative pole.   |
| Current Accuracy                    | -3%    | -    | +3%                   |   |
| Total Output Current Ripple (pk-pk) | -      | 1%   | 1.5%                  | 20MHz BW, full load& LED load, the ripple would be tiny different under different LED load. |
| Startup Overshoot Current           | -      | -    | -                     | No overshoot.   |
| Line Regulation                     | -1%    | -    | +1%                   | 25°C±10°C ambient temperature, input voltage changes from 220Vac to 400Vac.                 |
| Load Regulation                     | -1%    | -    | +1%                   | 25°C±10°C ambient temperature, Input Voltage 400Vac, load changes from 80% to 100%.         |
| Turn-on Delay Time                  | -      | -    | 1.5s                  | 220~400Vac &100% Load, load is LED.   |

## General Specifications

| Parameter                         | Min   | Typ.                          | Max                   | Notes   |
|-----------------------------------|---|-------------------------------|-----------------------|---|
| Efficiency@220Vac@1.2A            | 94.0%                                       | 95.5%                         | -                     | Measured at full load and 25°C ambient temperature  |
| Efficiency@277Vac@1.2A            | 94.5%                                       | 96.0%                         | -                     | Measured at full load and 25°C ambient temperature  |
| Efficiency@347Vac@1.2A            | 95.0%                                       | 96.5%                         | -                     | Measured at full load and 25°C ambient temperature  |
| Efficiency@400Vac@1.2A            | 95.5%                                       | 97.0%                         | -                     | Measured at full load and 25°C ambient temperature  |
| Mean Time Between Failure         | -   | 200Khours                     | -                     | 25°C±10°C ambient temperature, 220Vac,80% load (MIL-HDBK-217F/SR-332).  |
| Lifetime                          | -   | 50Khours                      | -                     | Tc=75°C, 220Vac&100% load.  |
| Ambient Temperature Ta            | -40°C                                       | -                             | +45°C                 | 220Vac&100% load.   |
| Ambient Temperature Ta            | -40°C                                       | -                             | +50°C                 | 277Vac~400Vac&100% load.  |
| Operating Tc for Safety Tc_s      | -40°C                                       | -                             | +90°C                 |   |
| Operating Tc for Warranty Tc_w    | -40°C                                       | -                             | +75°C                 | 5 years warranty case temperature<br>Humidity: 10% to 80% RH No condensation.   |
| Storage Temperature Ta            | -40°C                                       | -                             | +85°C                 |   |
| Altitude                          | -60m  | -                             | 4000m                 |   |
| Input Under voltage Protection    | 150Vac                                      | 170Vac                        | 190Vac                |   |
| External NTC (R1)                 | -   | 18K Ohm<br>(Set by software)  | -                     | When the R-NTC is reduced to R1, the external thermal protection is triggered and the output current gradually decreases. |
| External NTC (R2)                 | -   | 9.1K Ohm<br>(Set by software) | -                     | When the R-NTC is reduced to R2, the output current is reduced to the programmed protection current value.                |
| External NTC (Protection Circuit) | 10%Io <sub>set</sub>                        | 60%Io <sub>set</sub>          | 100%Io <sub>set</sub> | 10%Io <sub>set</sub> >Io <sub>min</sub> (Default setting 60%).  |
| External NTC (Protection Circuit) | Io <sub>min</sub>                           | 60%Io <sub>set</sub>          | 100%Io <sub>set</sub> | 10%Io <sub>set</sub> ≤Io <sub>min</sub> (Default setting 60%).  |
| Over Temperature Protection Tc    | -   | 90°C                          | 95°C                  | Tc; 220Vac&100% load.   |
| Short Circuit Protection          | -   | -                             | -                     | Self-recovery .   |
| Dimensions (L*W*H)                | 500*150*81mm                                |                               |                       |   |
| Net Weight                        | 6400±100g/PCS                               |                               |                       |   |
| Package                           | 587*487*170mm; 2PCS/ctn, Gross Weight: 15Kg |                               |                       |   |

## DMX Dimming

| Parameter                   | Min           | Typ.     | Max             | Notes             |
|-----------------------------|---------------|----------|-----------------|-------------------|
| DMX+ to DMX-                | -6V           | -        | 6V              |                   |
| DMX+ to Chassis             | 22M Ohm       | -        | -               | At 42Vdc          |
| DMX- to Chassis             | 22M Ohm       | -        | -               | At 42Vdc          |
| Logic 0 Input               | -             | -        | -0.2V           | DMX+ to DMX-      |
| Logic 1 Input               | 0.2V          | -        | -               | DMX+ to DMX-      |
| Communication Baud Rate     | -             | 250K bps | -               |                   |
| Dimming Output Range        | 5% $I_{Omax}$ | -        | 100% $I_{Oset}$ |                   |
| Dimming value with turn off | -             | -        | 1               | 5% $I_{Omax}$     |
| Dimming value with turn on  | -             | -        | 0               |                   |
| flashing times per second   | -             | -        | 6               | 0%-100% $I_{set}$ |

**Note:**

All specifications are typical at 25°C.

## DALI-2 Specifications

| Parameter                    | Min          | Typ | Max            | Notes                           |
|------------------------------|--------------|-----|----------------|---------------------------------|
| High Voltage Level           | 9.5V         | 16V | 22.5V          |                                 |
| Lower Voltage Level          | -6.5V        | 0V  | 6.5V           | Return terminal is "DA-".       |
| Dimming Output Current Range | 5% $I_{max}$ | -   | 100% $I_{max}$ | $I_{max}=1.8A$ .                |
| Sink Current                 | -            | -   | 2.0mA          |                                 |
| Timer dimming                | -            | -   | -              | Traditional, Self-adaption.     |
| Output lumen compensation    | -            | -   | -              | Constant lumen output function. |

## Safety Specification

| Parameter                           | CCC       | CE/ENEC/SAA | UL      | Notes   |
|-------------------------------------|-----------|-------------|---------|---|
| Dielectric Strength (Input-Ground)  | 2200Vac   | 2200Vac     | 2200Vac | 60s, Current not exceeding 10mA.                      |
| Dielectric Strength (Output-Ground) | 2200Vac   | 2200Vac     | 2200Vac | 60s, Current not exceeding 10mA.                      |
| Dielectric Strength (Input-Dim)     | 5150Vac   | 4400Vac     | 2200Vac | 60s, Current not exceeding 10mA.                      |
| Grounding Resistance                | 0.1Ω(Max) |             |         | 25°C±10°C Ambient Temperature, pass 25A Current, 60s. |
| Insulation Resistance               | 10MΩ(min) |             |         | Input-PE, Output-PE, 500Vdc/60s/25°C/70%RH.           |

## Safety Compliance

| Safety Category | Standards                 | Approved | Notes |
|-----------------|---------------------------|----------|-------|
| CCC             | GB19510.1,GB19510.14      | √        |       |
| CE              | EN61347-1, EN61347-2-13   | √        |       |
| CE              | EN62493                   | √        |       |
| ENEC            | EN62384                   | √        |       |
| CB              | IEC61347-1, IEC61347-2-13 | √        |       |
| BIS             | IS 15885(PART 2/SEC 13)   | √        |       |
| UL              | UL 8750                   | √        |       |
| CUL             | CSA C22.2 No.250.13       | √        |       |
| KC              | K61347-1, K61347-2-13     |          |       |
| PSE             | J61347-1, J61347-2-13     |          |       |
| SAA             | AS/NZS IEC 61347.2.13     | √        |       |
| SAA             | AS/NZS 61347.1            | √        |       |

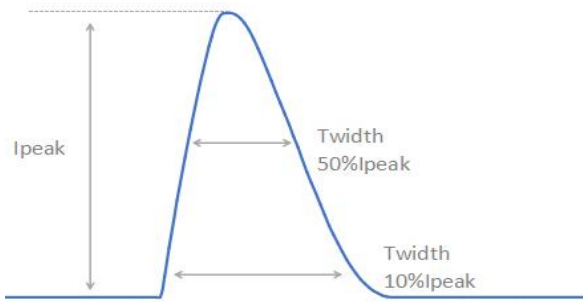
## EMC Compliance

| EMC Category | Standards                  | Approved | Notes |
|--------------|----------------------------|----------|-------|
| CCC          | GB/T 17743, GB 17625.1     | √        |       |
| CE           | EN 55015                   | √        |       |
| CE           | EN 61000-3-2, EN 61000-3-3 | √        |       |
| CE           | EN61000-4-2,3,4,5,6,11     | √        |       |
| CE           | EN 61547                   | √        |       |
| KC           | K61547                     |          |       |
| KC           | K00015                     |          |       |
| PSE          | J55015                     |          |       |
| FCC          | FCC part 15                | √        |       |

## RoHS

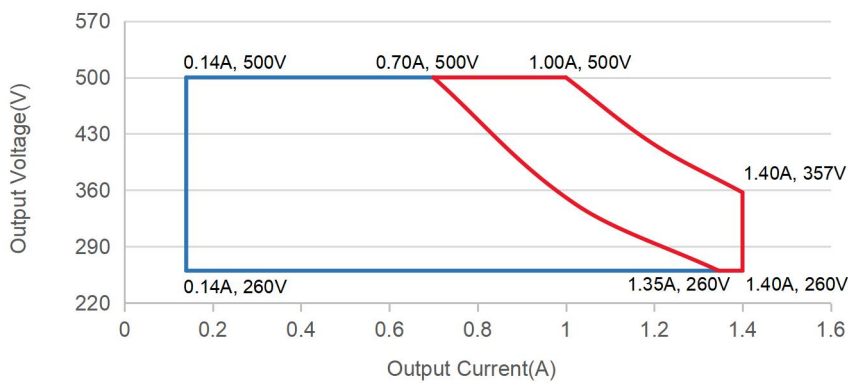
Our products comply with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

**Inrush Current**



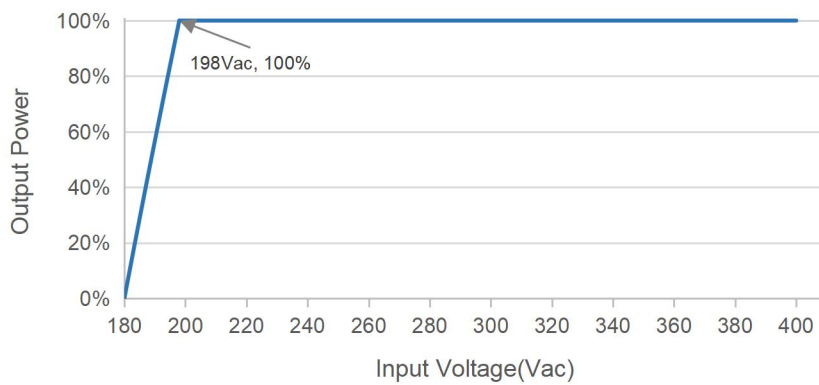
| Vin    | Ipeak | T(@10% of Ipeak) | T(@50% of Ipeak) |
|--------|-------|------------------|------------------|
| 220Vac | 20A   | 3.50ms           | 1.32ms           |
| 277Vac | 24A   | 3.48ms           | 1.52ms           |
| 347Vac | 30A   | 4.32ms           | 1.95ms           |
| 400Vac | 32A   | 2.70ms           | 0.82ms           |

**Output Voltage vs. Output Current**

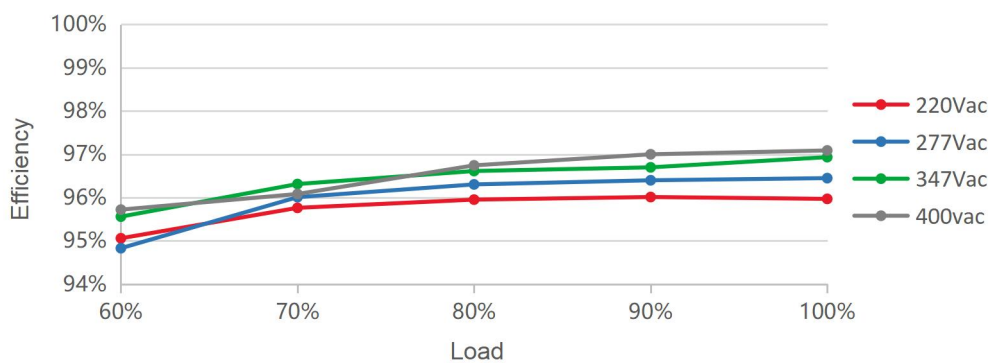


Red curve: good performance area

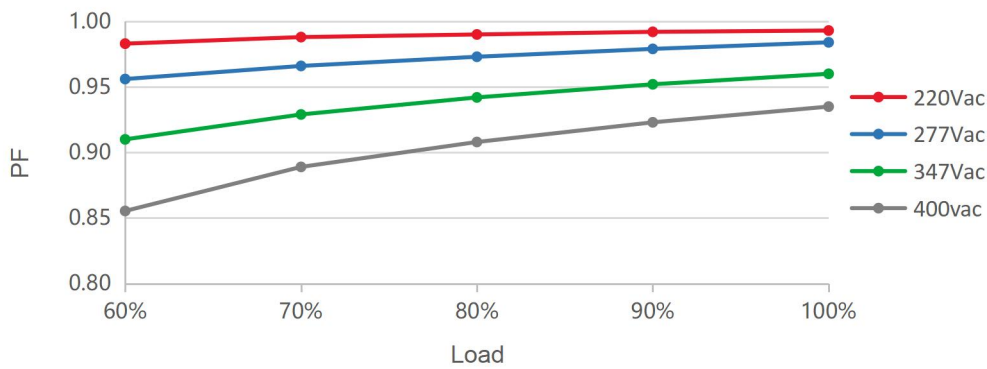
**Output Power vs. Input Voltage**



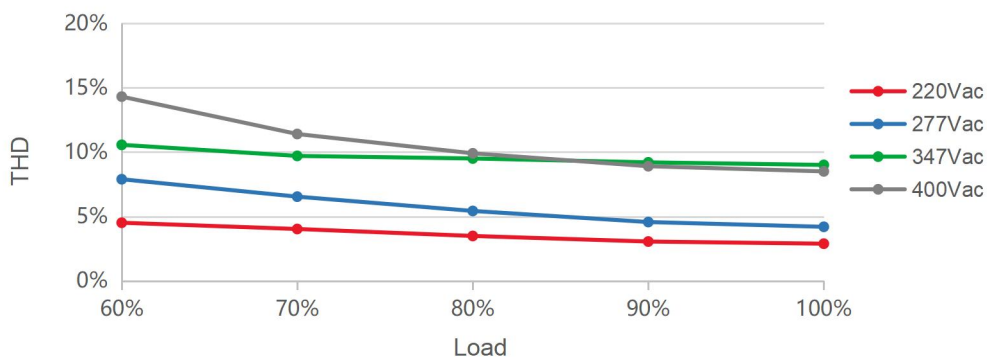
**Efficiency vs. Load**



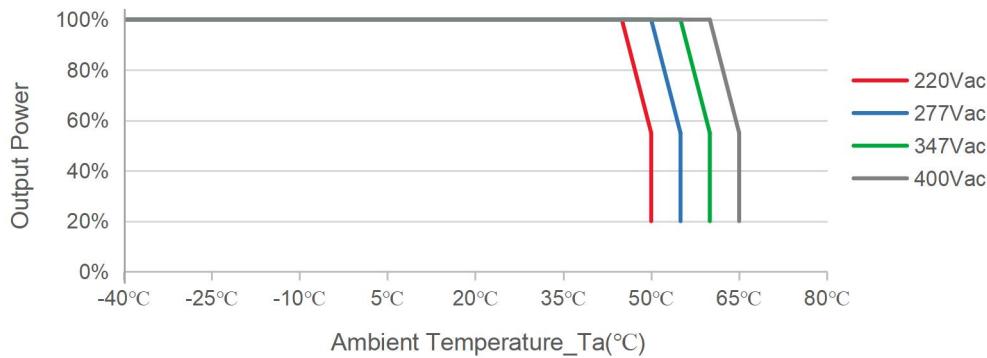
**PF vs. Load**



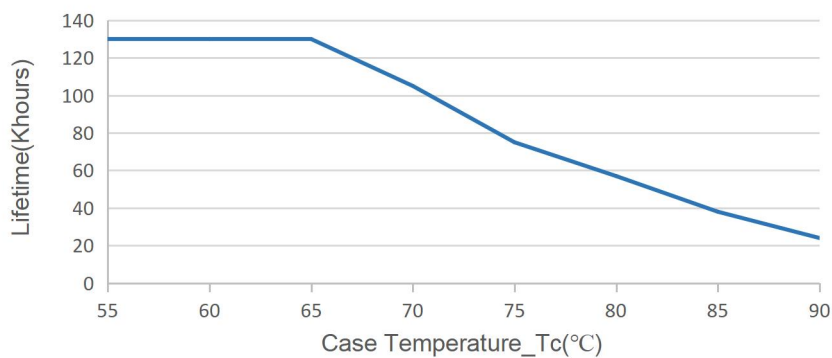
**THD vs. Load**



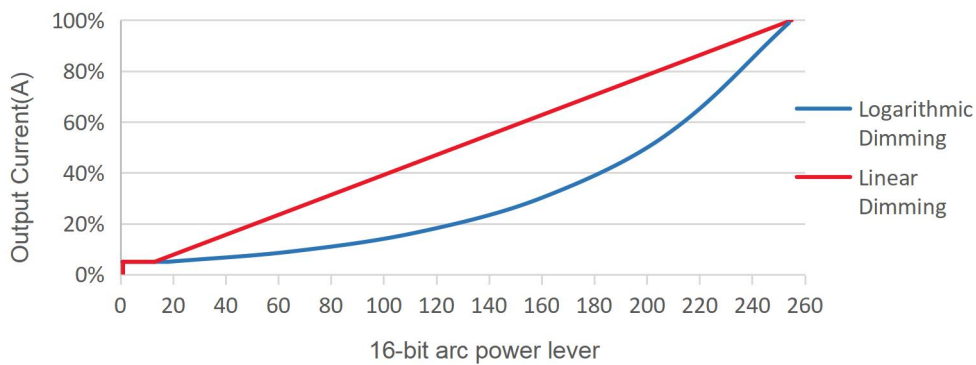
**Output Power vs. Ambient Temperature**



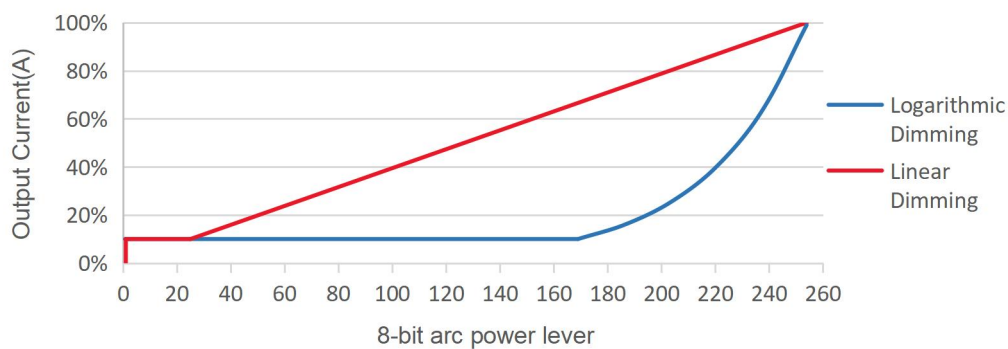
**Lifetime vs. Case Temperature**



**DMX Dimming Curve**

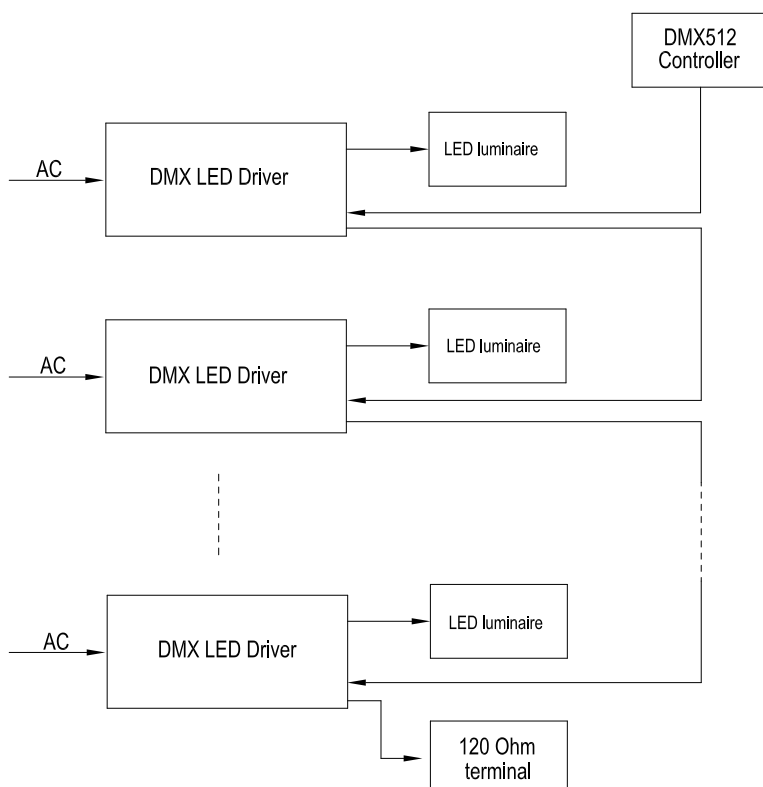


**DALI-2 Dimming Curve**



Note: Factory Default Output Logarithmic Curve.

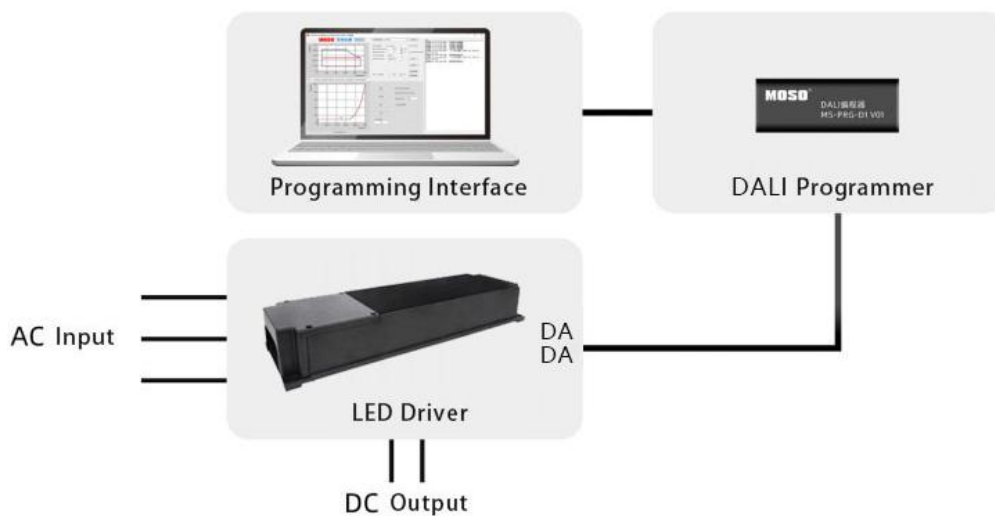
**Implementation: DMX512 Daisy chain**



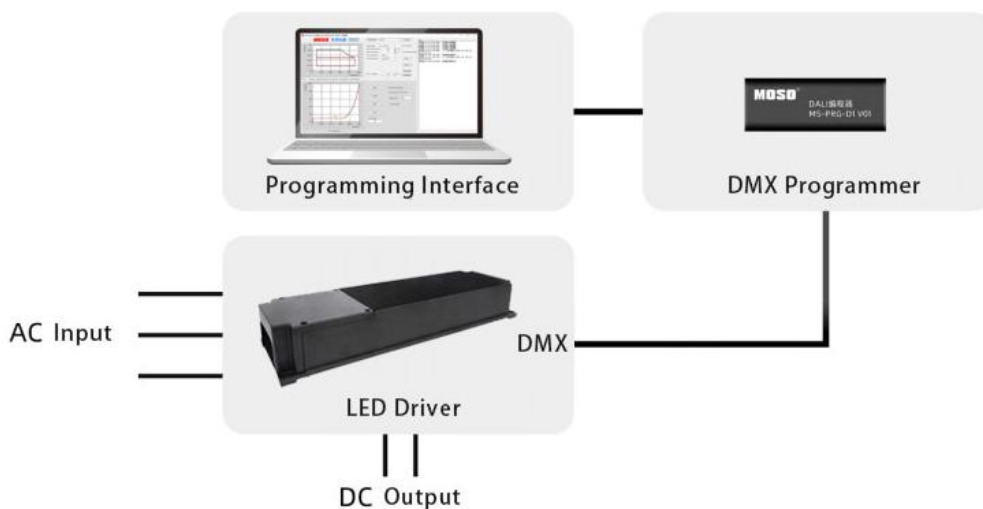
**Note:**  
 [1].Up to 32 drivers may be daisy-chained, terminated by a 120 Ohm resistor (connected between DMXA & DMXB as the last driver).  
 [2].300m maximum length.  
 [3].100m maximum between drivers.  
 [4]. For best performance, a characteristic impedance of 120 Ohm should be maintained for the entire length of the control wire.

## Programming Link (DMX&DALI-2)

### ■ For Dali



### ■ For DMX



## 1. Dimming Mode Switching for DALI-2 & DMX-RDM

### 1.1 Switching from DALI-2 Dimming to DMX-RDM:

- After connecting the DMX programmer to computer, click on the software "Scan Port" button;
  - Click "Read Cfg" to import the corresponding model's DMX configuration file (Six .cfg files for S6-1200W/1500W/1800W will be provided in advance by MOSO);
  - Click 'Set' button to transmit the .cfg file into the driver's MCU;
  - After setting and restarting the driver, the software interface displays the DMX dimming mode, indicating successful conversion;
- Note: If the third step fails to set, select "FFFFFFFFFFFF" for the Device UID and reset the driver.

### 1.2 Switching from DMX-RDM to DALI-2 Dimming:

- After connecting the DALI programmer to computer, click on the software "Scan Port" button;
- Click "Read Cfg" to import the corresponding model's DALI configuration file (Six .cfg files for S6-1200W/1500W/1800W will be provided in advance by MOSO);
- Click 'Set' button to transmit the .cfg file into the driver's MCU;
- After setting and restarting the driver, the software interface displays the DALI-2 dimming mode, indicating successful conversion;

## 2. Operating instructions

The screenshot shows the MOSO LED Driver Configurer Tool interface. The top left features a graph of Voltage (V) vs. Current (mA) with a highlighted green region. The top right shows configuration settings for Driver Type (S6-1500R500), Max Out Current (1400 mA), Dimming Type (DMX Dimming), and Dimming Curve (Linear). The bottom left shows a graph of Current (%) vs. Dimming. The bottom right shows DMX Dim settings including DMX Address (1), DMX Flag (23F), DMX Fade Time (0), PIN Code (1234), Man ID (0947), and Device UID (9470000349). A Log window on the right displays the following text:

```
test_sc 12:25:46.661 DMX0 : V4.5B9 USER
1000% 1000% 1000% 5% 524.8_ 411.6_
379.0V
test_sc 12:25:46.661 DMX0 : read basic
parameter success
```

### DALI / DMX visual software programming

1. Use corresponding programmer to connect with driver.
2. The output current of the three channels is independent. When setting the current, each channel needs to be modified.
3. The current parameters and configured driving parameters can be read and set.
4. Time dimming. Set the timing control function, which supports 7 segments.
5. Driver OTP and Lamps OTP. The Driver OTP and Lamps OTP parameters can be set according to the needs of customers.

## 3. NTC

The screenshot shows the MOSO LED Driver Configurer Tool interface with the Lamps OTP tab selected. The top left features a graph of Voltage (V) vs. Current (mA). The top right shows configuration settings for Driver Type (S6-1500R500), Max Out Current (1400 mA), Dimming Type (DMX Dimming), and Dimming Curve (Linear). The bottom left shows Lamps OTP settings including Resistance at 25°C (100 KΩ), Sensor constant (BETA) (4050), Start Derating (65 °C), End Derating (85 °C), and OTP Out Ratio (60 %). The bottom right shows Lamps Info settings including Current Temp., Current Max Temp., Last Max Temp., History Max Temp., Occurred Time, and OTP Count. A Log window on the right displays the following text:

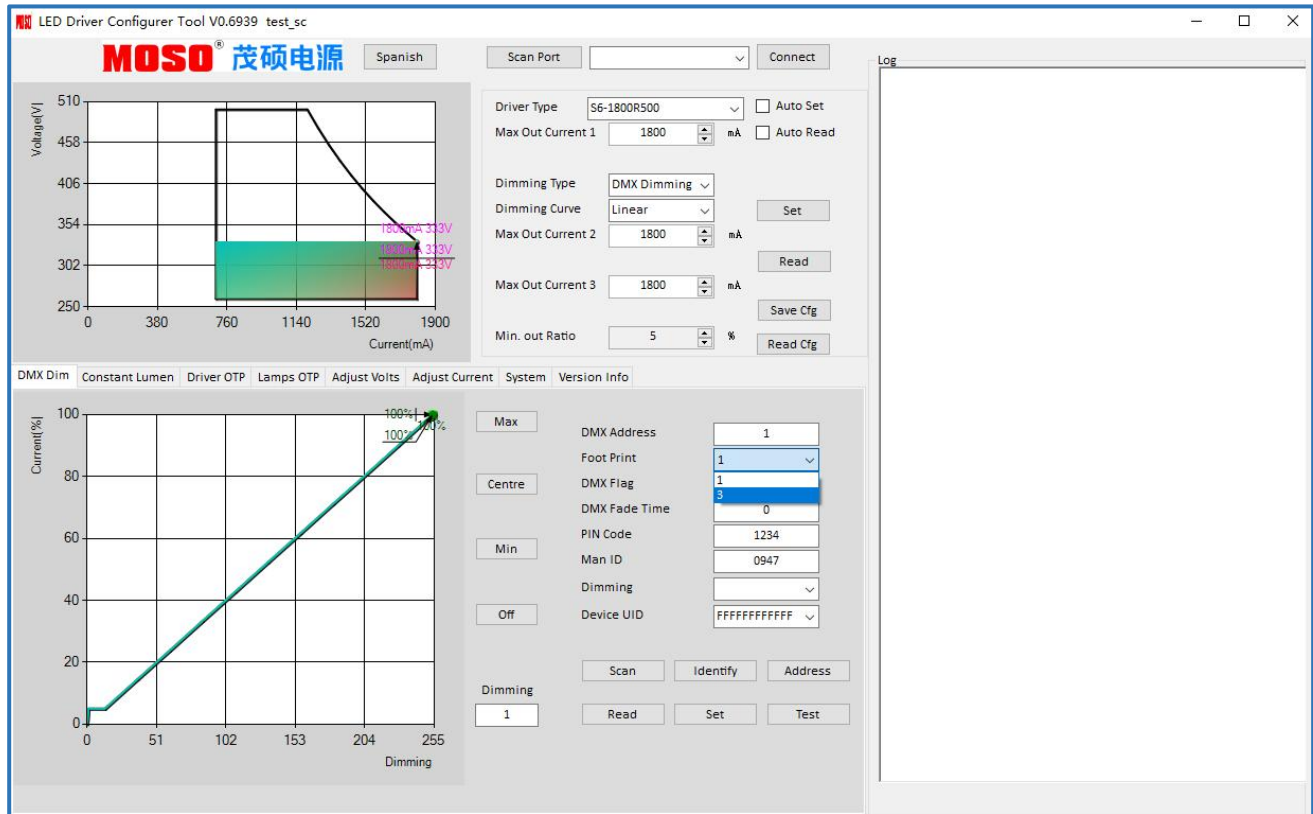
```
test_sc 12:26:02.299 DMX0 : read lamps OTP
parameters success
```

The recommended value of NTC resistance is 100K Ω, BETA: 4050

NTC resistance value changes with temperature:

|      |                |
|------|----------------|
| 40°C | 48.6KΩ-58.8KΩ; |
| 60°C | 21.8KΩ-26.3KΩ; |
| 65°C | 18.1KΩ-22.1KΩ; |
| 70°C | 15.1KΩ-18.6KΩ; |
| 75°C | 12.7KΩ-15.8KΩ; |
| 80°C | 10.7KΩ-13.4KΩ; |
| 85°C | 9.1KΩ-11.5KΩ;  |

4. DMX interface parameters



**Scan**

When the DMX control system is connected to a new driver, customer need to click the **“Scan”** button to scan the new driver. The Configurer Tool will automatically read the Device UID of the newly connected driver in the system, The UID of the driver is displayed on the right LOG page. When the Device UID displayed by the Configurer Tool is consistent with the actual device UID of the driver, you can perform the next operation on the DMX driver, otherwise the software will display "read basic parameter fail".

**Identify**

The specific position of the driver can be identified by this function. Click the **“Identify”** button, and the light connected to the corresponding driver will flash to indicate its location.

**Foot print**

This function is used to assign the number of addresses. If 1 is selected, the three channels share a single DMX address, and if 3 is selected, the three channels use three different DMX addresses.

**Address**

Driver assignment DMX address can be modified. With this function, customer can enter any number within 512 into the **“DMX Address”** to reassign the DMX address of a driver. Entering the number, then click **“Address”** to complete the address setting.

The number of driver channels corresponds to the number of **DMX addresses** occupied by the driver. The Address window displays the address of the first channel. For example, if the address of the first channel is 6, the address of the second channel is 7 and the address of the third channel is 8.

**⚠ Note:** So for multichannel DMX drivers, the maximum configurable address equals : 512- (number of channels) +1 , Unlike the **“Address”** button, which can

only modify the DMX address of the driver, **“Set”** can set all the DMX parameter modified by customer into the driver.

**DMX Flag**

The software displays the hexadecimal code and converts the corresponding binary code to correspond to functions. 1 indicates that the function is enabled and 0 indicates that the function is disabled. At present, only ten functions are supported.

For example, 23F=10 ,0011 ,1111 indicates that functions 0~5 and 9 are enabled.

**Dimming**

This function is used to read the dimmer value data of the driver in real time and return the value.

**DMX fade time**

The Fade Time will be started when the system changes the dimming value. The maximum of Fade Time for each steps can reach 2500ms, The calculation method is set value multiplied by 10ms.

The longest total time spent will be 635 seconds when dimming value has changed from 0 to 254 with maximum Fade Time. The calculation formula is as follows:

$$255 \text{ steps (whole dimming value has changed)} * 2500\text{ms (maximum fade time)} \div 1000 \text{ (Unit conversion: from microseconds to seconds)} = 635 \text{ seconds.}$$

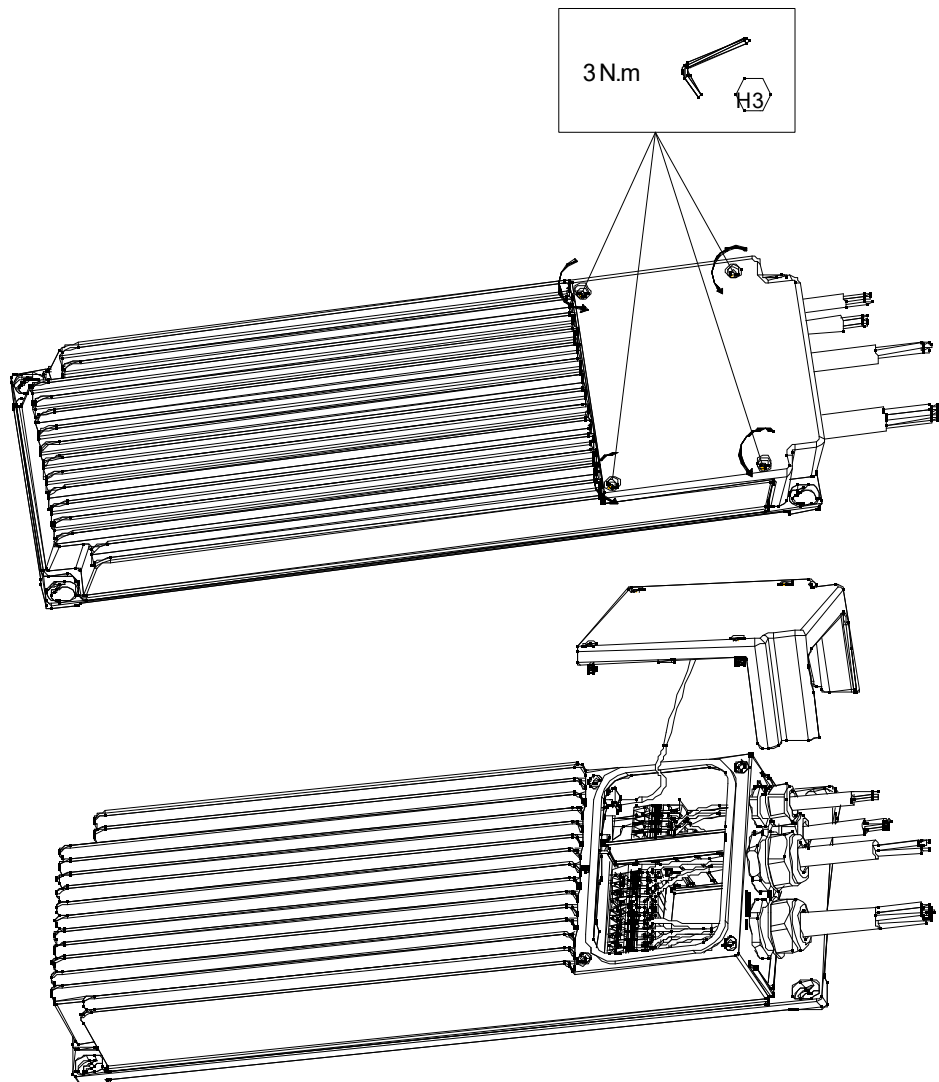
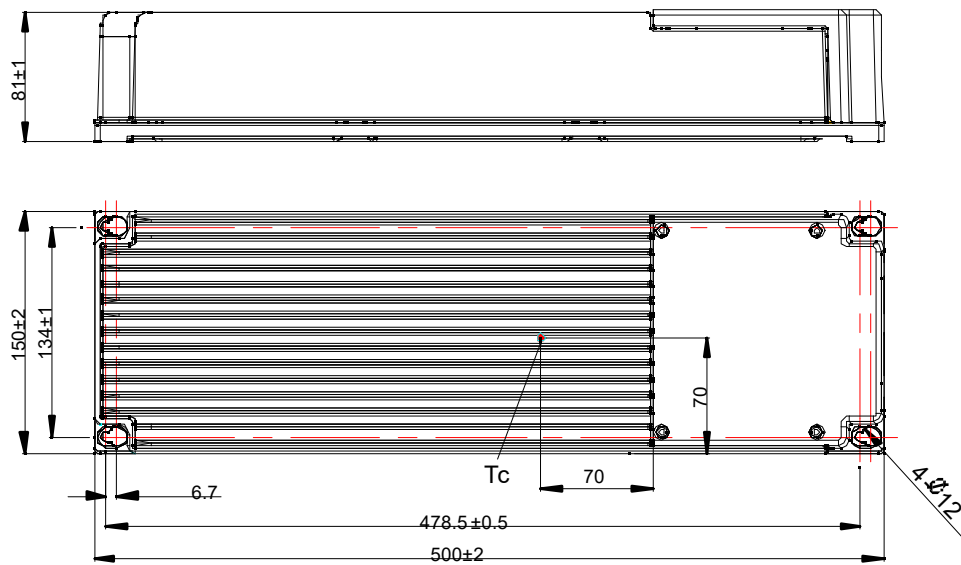
**PIN Code**

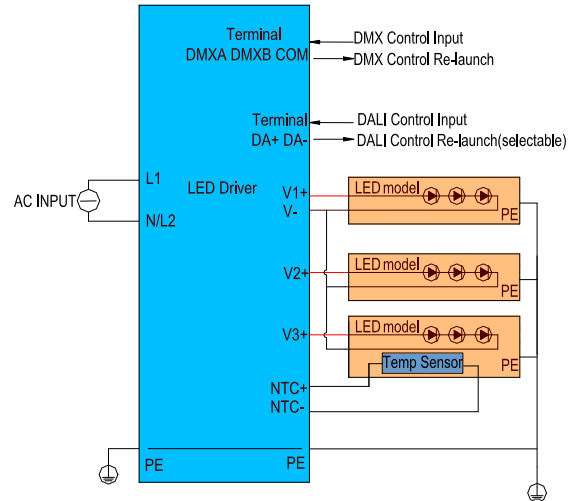
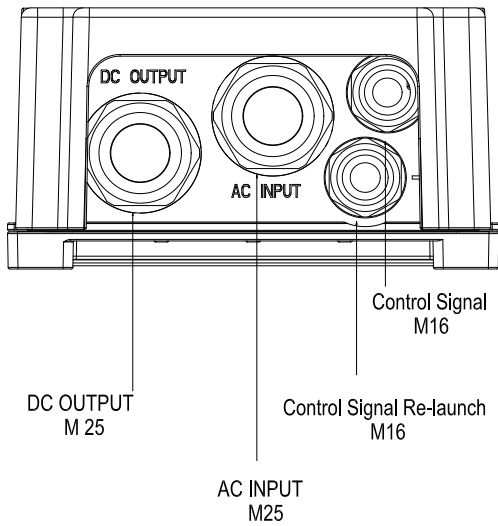
The password for each driver to join the customer's control system.

**Device UID**

A window used to select the device UID of the driver. Use the **“Scan”** button to automatically switch the device UID of the driver newly connected to the system, or manually select the device UID previously connected.

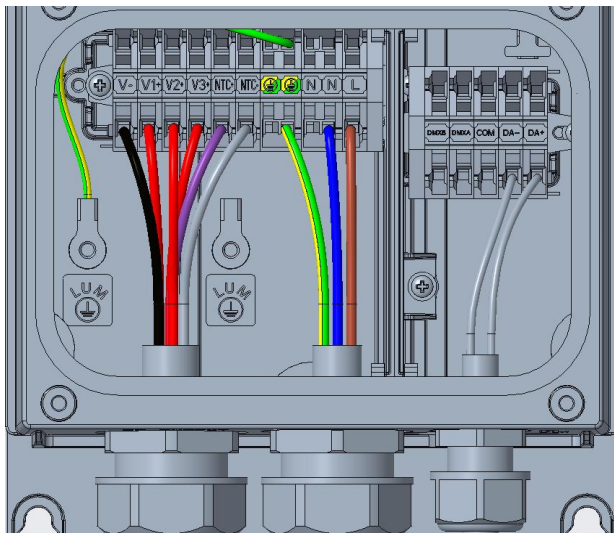
Mechanical Outline



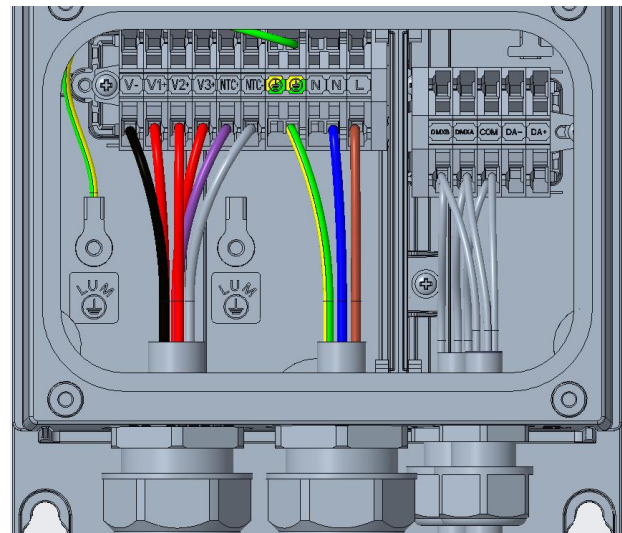


Wire Ports

V1+, V2+, V3+ cannot be connected together



DALI Wiring Connection



DMX Wiring Connection

**Connections**

| Wire                           | Recommended wire Specification   | Note |
|--------------------------------|--|------|
| Input                          | M25 wire diameter range 9-16mm, optional for 13-18 mm ;<br>Wire Cross-section: 1.0 mm <sup>2</sup> -4.0 mm <sup>2</sup> /16AWG-12AWG |      |
| Output, NTC                    | M25 wire diameter range 9-16mm, optional for 13-18 mm ;<br>Wire Cross-section: 1.0 mm <sup>2</sup> -4.0 mm <sup>2</sup> /16AWG-12AWG |      |
| Dimming (DALI / DMX)           | M16 wire diameter range 4-8mm, optional for 2-6mm<br>Wire Cross-section: 0.5 mm <sup>2</sup> -1.5 mm <sup>2</sup> /22AWG-16AWG       |      |
| Dimming (DALI / DMX Re-launch) | M16 wire diameter range 4-8mm, optional for 2-6mm<br>Wire Cross-section: 0.5 mm <sup>2</sup> -1.5 mm <sup>2</sup> /22AWG-16AWG       |      |

| Terminal                       | Recommended Connection Specification | Note |
|--------------------------------|--------------------------------------|------|
| Input                          | M25, the torsion 5~6N.m              |      |
| Output, NTC                    | M25, the torsion 5~6N.m              |      |
| Dimming (DALI / DMX)           | M16, the torsion 1~2N.m              |      |
| Dimming (DALI / DMX Re-launch) | M16, the torsion 1~2N.m              |      |

**Label (DALI CCC+CE+UL)**

**MOSO**<sup>®</sup> S6-1K5D500  
LED DRIVER(LED控制装置)  
Constant current type(恒流模式)  
Integrated SPD(内置防雷管)

|                       |  |
|-----------------------|--|
| INPUT<br>输入           | 220-400V~50/60Hz, 8.0A Max.PF:0.9C-0.98,1600W  |
| OUTPUT<br>输出          | Three channels output<br>Single channel: 260-500V $\Rightarrow$ 0.14-1.40A, 500W<br>Max.Uout(最大电压)= 600V $\Rightarrow$<br>Total Max.Power(最大功率): 1500W |
| t <sub>c</sub> : 90°C | t <sub>a</sub> : 50°C  |

CLASS P: "FOR CONNECTIONS USE WIRE RATED FOR AT LEAST 90°C (194° F) " OR EQUIVALENT  
POUR LES CONNEXIONS UTILISER DES CONDUCTEURS D'ALIMENTATION CONVENANT 90 °C  
USE ONLY WITHIN AN ENCLOSURE; DOIT ÊTRE INSTALLÉ DANS UNE ENCEINTE  
For use in permanently connected (fixed) equipment only  
深圳茂硕电子科技有限公司  
SHENZHEN MOSO ELECTRONICS TECHNOLOGY CO., LTD  
No.1061, Songbai Road, Xili Town, Nanshan District,  
Shenzhen, CHINA  
MADE IN CHINA Suitable for Dry  
For LED module only Damp and wet locations

**Label (DMX CCC+CE+UL)**

**MOSO**<sup>®</sup> S6-1K5R500  
LED DRIVER(LED控制装置)  
Constant current type(恒流模式)  
Integrated SPD(内置防雷管)

|                       |  |
|-----------------------|--|
| INPUT<br>输入           | 220-400V~50/60Hz, 8.0A Max.PF:0.9C-0.98,1600W  |
| OUTPUT<br>输出          | Three channels output<br>Single channel: 260-500V $\Rightarrow$ 0.14-1.40A, 500W<br>Max.Uout(最大电压)= 600V $\Rightarrow$<br>Total Max.Power(最大功率): 1500W |
| t <sub>c</sub> : 90°C | t <sub>a</sub> : 50°C  |

CLASS P: "FOR CONNECTIONS USE WIRE RATED FOR AT LEAST 90°C (194° F) " OR EQUIVALENT  
POUR LES CONNEXIONS UTILISER DES CONDUCTEURS D'ALIMENTATION CONVENANT 90 °C  
USE ONLY WITHIN AN ENCLOSURE; DOIT ÊTRE INSTALLÉ DANS UNE ENCEINTE  
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**Note:**

The accessory package includes label of S6-1K5D500\*1; Allen key(H3)\*1; O-ring(13~18mm)\*2; O-ring(2~6mm)\*2

**Label (DALI CE+BIS)**

**MOSO**<sup>®</sup> **S6-1K5D500**  
LED DRIVER  
Constant current type

|                       |   |
|-----------------------|---|
| INPUT                 | 220-400V~ 50/60Hz, 8.0A Max. PF:0.9C-0.98, 1600W  |
| OUTPUT                | Three channels output<br>Single channel: 260-500V== 0.14-1.40A, 500W<br>Max. Uout= 600V==<br>Total Max.Power: 1500W |
| t <sub>c</sub> : 90°C | t <sub>a</sub> : 50°C   |

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Shenzhen, CHINA

MADE IN CHINA For LED module only  
Suitable for Dry  
Damp and wet locations

IS15885(Part2/Sec13)

R-41077186  
www.bis.gov.in

IP66

**Label (DMX CE+BIS)**

**MOSO**<sup>®</sup> **S6-1K5R500**  
LED DRIVER  
Constant current type

|                       |   |
|-----------------------|---|
| INPUT                 | 220-400V~ 50/60Hz, 8.0A Max. PF:0.9C-0.98, 1600W  |
| OUTPUT                | Three channels output<br>Single channel: 260-500V== 0.14-1.40A, 500W<br>Max. Uout= 600V==<br>Total Max.Power: 1500W |
| t <sub>c</sub> : 90°C | t <sub>a</sub> : 50°C   |

SHENZHEN MOSO ELECTRONICS TECHNOLOGY CO., LTD  
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Damp and wet locations

IS15885(Part2/Sec13)

R-41077186  
www.bis.gov.in

IP66

**Cautions Label**

**CAUTIONS**

1. After the wiring is connected according to the datasheet, ensure that the gland is effectively locked to prevent water from damaging the driver.
2. When closing the electrical cover after wiring, ensure that the four fixing screws effectively tightened to prevent water from damaging the driver.

**Shipping Barcode Label Standard**

|      |   |       |   |     |   |                                 |   |   |   |                   |   |             |   |                        |   |                           |   |  |
|------|---|-------|---|-----|---|---------------------------------|---|---|---|-------------------|---|-------------|---|------------------------|---|---------------------------|---|--|
| 2    | 2 | 1     | 2 | 1   | 2 | 1                               | 0 | 5 | 7 | 0                 | 1 | A           | 1 | 0                      | 0 | 0                         | 1 |  |
| Year |   | month |   | day |   | Part of production order number |   |   |   | Engineering level |   | REVISION RR |   | Production line number |   | Progressive Serial number |   |  |

**Version**

|     |               |            |
|-----|---------------|------------|
| A.1 | First release | 2023-08-01 |
| B.4 | ERL202308034  | 2023-09-15 |
|     |               |            |
|     |               |            |
|     |               |            |
|     |               |            |

## Specification for Approval

Product Name: 1500W Non-isolate LED Driver

Product Model: S6-1K5R500

Rev : B.4

Address: XiLi Songbai Road 1061, Nanshan District, Shenzhen City, Guangdong, China

Tel: 0755-27657000

FAX: 755-27657908

E-mail: [info@mosopower.com](mailto:info@mosopower.com)

Web Site: <http://www.mosopower.com>

| Prepared By | Checked By | Approved By |
|-------------|------------|-------------|
|             |            |             |

## Specification for Approval

Product Name: 1500W Non-isolate LED Driver

Product Model: S6-1K5R500

Rev: B.4

| CUSTOMER AUTHORIZED SIGNATURE   |            |             |
|---|------------|-------------|
| Tested By   | Checked By | Approved By |
|   |            |             |
| (Company seal)Return one copy to MOSO with approved signature and company seal. |            |             |

Address: XiLi Songbai Road 1061, Nanshan District, Shenzhen City, Guangdong, China

Tel: 0755-27657000

FAX: 755-27657908

E-mail: [info@mosopower.com](mailto:info@mosopower.com)

Web Site: <http://www.mosopower.com>

| Prepared By | Checked By | Approved By |
|-------------|------------|-------------|
|             |            |             |