

BDD-V24-030S

Data Sheet

2018.06 V1.1

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Features

BDD-V24-030S is a 30W constant voltage dimmable driver with wide input voltage, suit for DALI control mode

- Accuracy of output voltage less than 3%
- Linear driver, size: 377×21×19.5mm
- wide input voltage , 100-277VAC
- up to 90% power supply efficiency
- Built-in PFC function, power factor > 0.95
- Short circuit/ open load/ Over load/ over current protection
- No flicker, ripple wave & noise less than 1%@230V full load
- Total harmonic distortion less than 15%
- Warranty for 5 years
- IP20 for indoor LED luminaire
- CE/CB/SAA certification(ongoing)



Technical Data

| | | | | | | | |
|---------------------|---|---|-------------------------------|---|---|--|--------------------------------------|
| AC-L AC-N GND | INPUT 8-9 mm Φ : 0.5-0.75mm ² | Input Voltage :100-277VAC Input Frequency:50/60Hz Input Current:0.38A Max Power Factor:>0.9 ta:55°C | •TC:90°C www.colorsled.com | Dimmable Constant Voltage LED Driver Model:BDD-V24-030S CB CE SAA RoHS | Output Power:30W Output :+24V 1.25A Control Mode: DALI Dimming Range:1%-100% Short-Circuit / Over load protection Non Flicker and Auto Recovery Mode | 8-9 mm Φ : 0.5-0.75mm ² SELV-equivalent Made in China | OUTPUT DA2 DA1 LED+ LED- |
|---------------------|---|---|-------------------------------|---|---|--|--------------------------------------|

Input

| | |
|---------------------------|-----------------------|
| Input voltage | 100~277VAC |
| Input current | 0.38A Max |
| Input frequency | 50/60Hz |
| Power factor | >0.95 (Full load) |
| Driver efficiency | 83% (Full load) |
| Total harmonic distortion | THD<15% (Full load) |
| Turn on delay time | <0.5s@230V |
| Surge current | 40A |

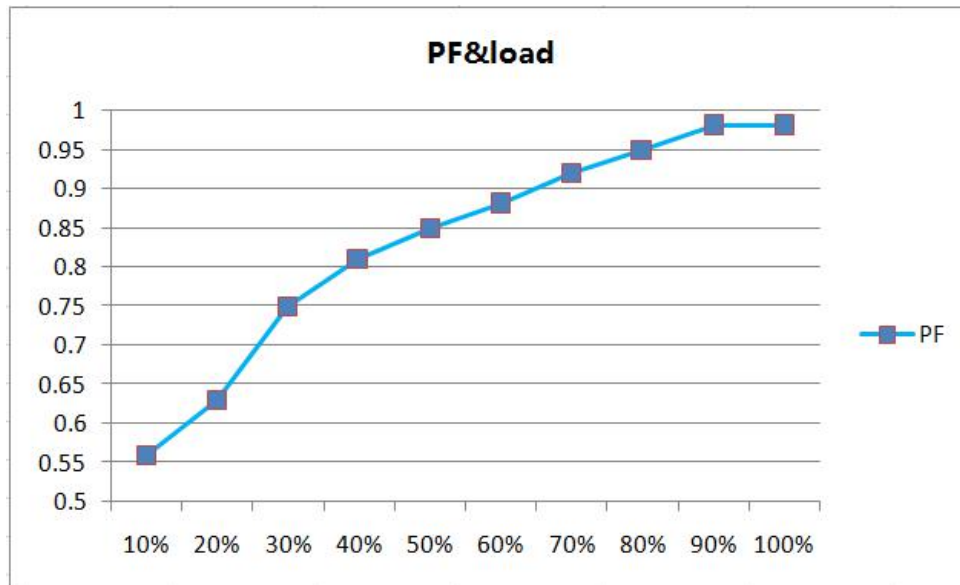
Output

| | |
|---------------------|------------------------|
| Output voltage | 24VDC |
| Output current | 1.25A Max |
| Power rating | 30W Max |
| Ripple wave & noise | <1% (Full load@230V) |
| Voltage accuracy | ±3% |

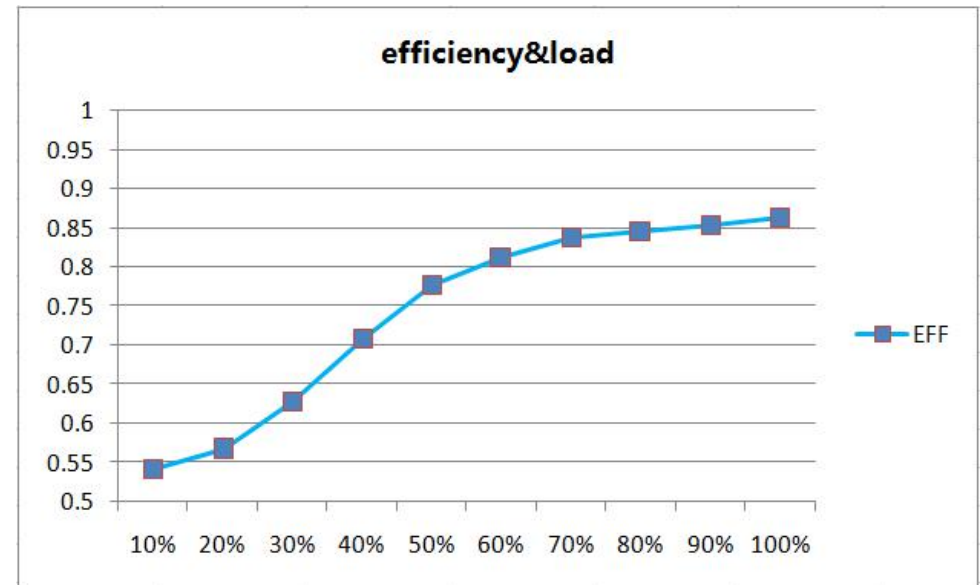
Environment

| | |
|----------------------|----------------|
| Ta | -20°C~+55°C |
| Environment humidity | 10%~90% |
| Storage temperature | -30°C~+70°C |
| Storage humidity | 10%~90% |
| Application | For indoor use |
| IP degree | IP20 |
| Size | 372*39*27mm |

Test Data



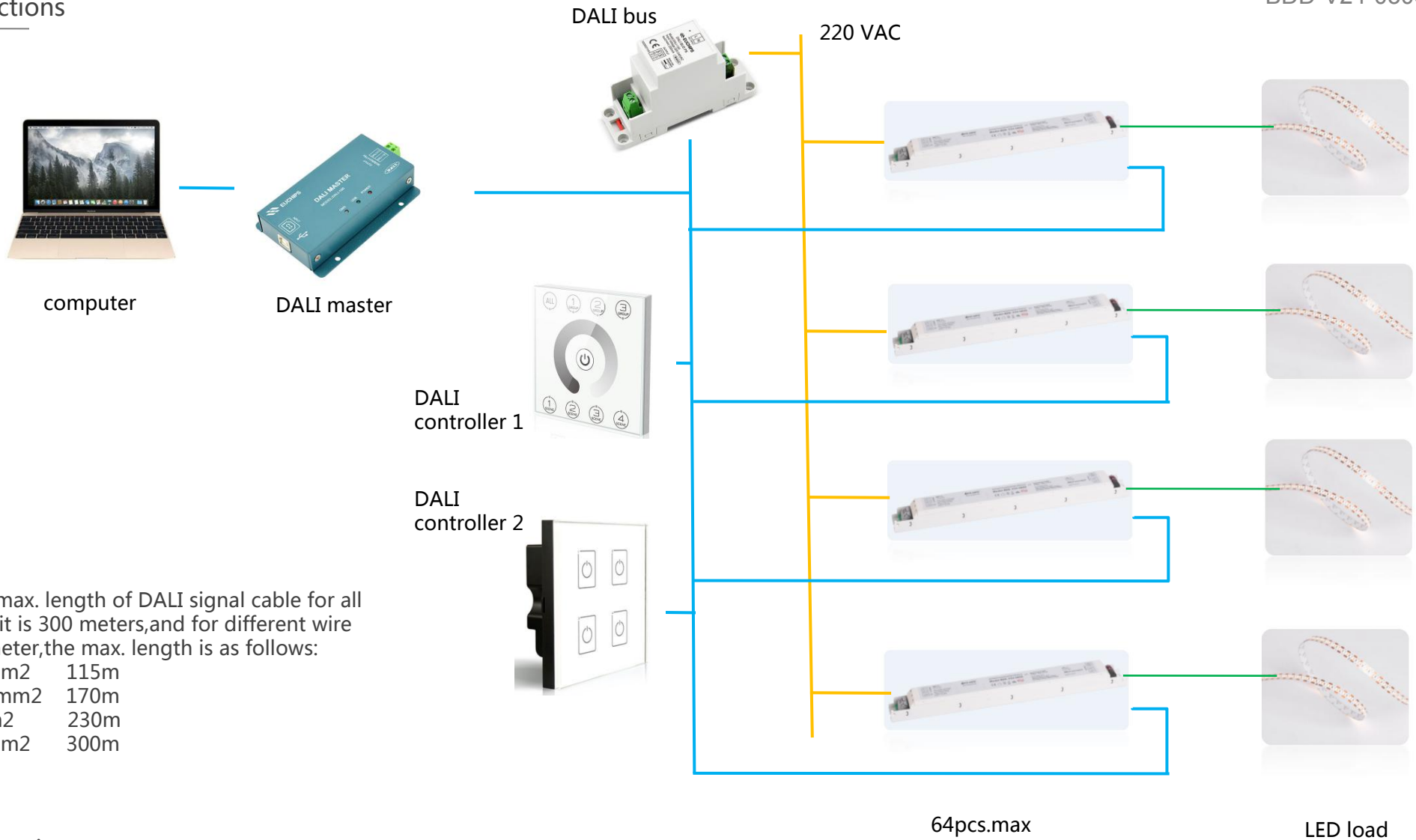
Power factor curve



Efficiency curve

Instructions

BDD-V24-030S



The max. length of DALI signal cable for all circuit is 300 meters, and for different wire diameter, the max. length is as follows:

| | |
|---------------------|------|
| 0.5mm ² | 115m |
| 0.75mm ² | 170m |
| 1mm ² | 230m |
| 1.5mm ² | 300m |

Protection

Short circuit/ open load/ Over load/ over current protection

Precautions

- Please select the driver that matches the specified load. The output voltage of this product is 24VDC.
 - To prolong the driver life span, please keep 5% load left(It' s recommended to use only 95% of the electricity)
 - Do not use any acid or alkaline adhesive to fix the product.
 - Risk of electric! It must be installed by a recognized electrician,and make sure to cut off the power before installation
 - Please contact us for more information about test reports,rاليability etc.
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