

AV0D024V03066 - 24Vdc - 30W DALI 2



Features

Output:	Constant Voltage
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 84%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66 for indoor and outdoor
Dimming function:	DALI Protocol IEC62386; DIM
Dimming range:	0-100% dimming depth: 0.1%
PWM output:	Frequency 4K Hz, reaching the exemption level
NFC function	Adjust slightly, read & write output voltage, and set address
Application:	Suitable for LED lighting and moving sign applications

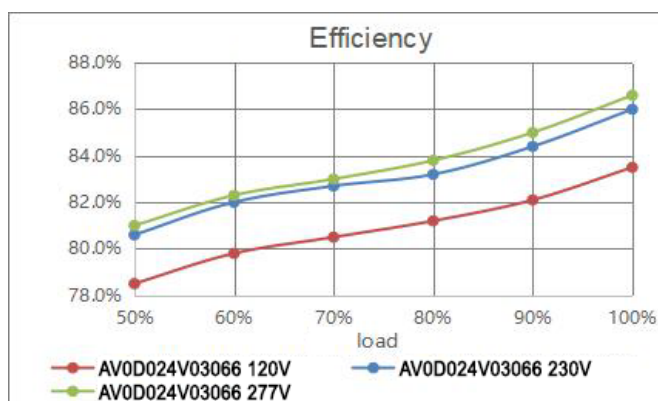
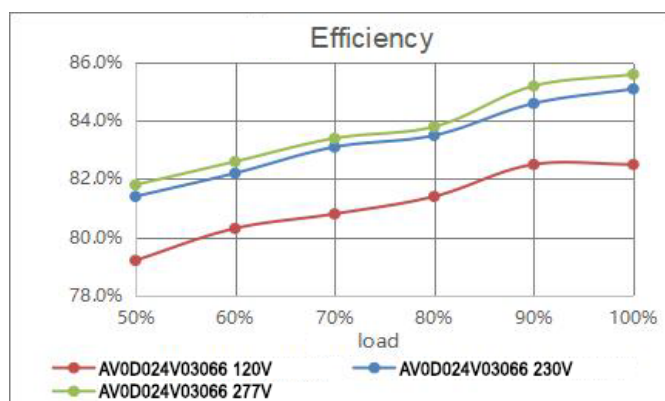
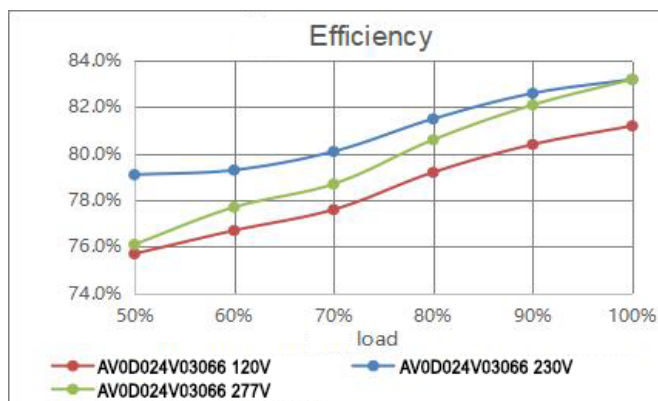
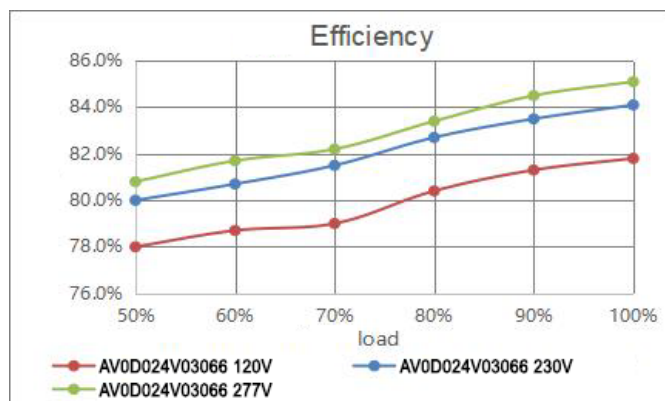
Specification

Model		AV0D024V03066
Certificate		UL (pending) / cUL (pending) / FCC (pending) / (ENEC pending) / SAA / CE / CB / RoHS
Output	DC Voltage	24V (24-26V adjust by NFC)
	Voltage Tolerance	±0.2V
	Voltage Regulation	±0.5%
	Rated current	1.25A
	Rated power	30W
	Load Regulation	1%
	Standby power	≤ 0.5W @120VAC & @230VAC
Input	Voltage Range	100-277VAC
	Frequency Range	47 - 63Hz
	Power Factor (Typ.)	PF≥0.98@120VAC PF≥0.98@230VAC PF≥0.95@277VAC
	THD(Typ.) @ full load	≤10%@120VAC ≤10%@230VAC ≤15%@277VAC
	Efficiency(Typ.) @ full load	82%@120VAC 84%@230VAC 84%@277VAC
	AC Current (Max.)	0.42A
	Inrush Current (Typ.)	10.4A , 204us@50%120VAC 32A , 132us@50%230VAC 28A, 212us@50%277VAC
	Leakage current	<0.5mA
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed
	Over Load	≤120%, hiccup mode, recover automatically after fault condition is removed
	Over temperature	Shell surface temp.100℃±10℃, output will be off; recovers automatically after temp. drops.
Environment	Working TEMP.	-40~+60℃ (see below derating curve)
	Working Humidity	20 - 95%RH non-condensing
	Storage TEM.,Humidity	-40 - +80℃, 10 - 95% RH non-condensing
	TEMP.coefficient	±0.03%/℃ (0 - 50℃)
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 (EU) & UL8750 UL1310 (US)
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC (EU) I/P-O/P:1.8KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)
	Isolation resistance	I/P-O/P: 100MΩ / 500VDC / 25℃ / 70%RH
	EMC immunity	EN61000-4-2,3,4,5,6,11 EN61547
	EMC Emission	EN55015 EN61000-3-2,3 (≥50%)(EU) & FCC Part 15 Subpart B(US)
Others	Net Weight	0.35kg
	Dimension	268*38.5*23.6mm (L*W*H)

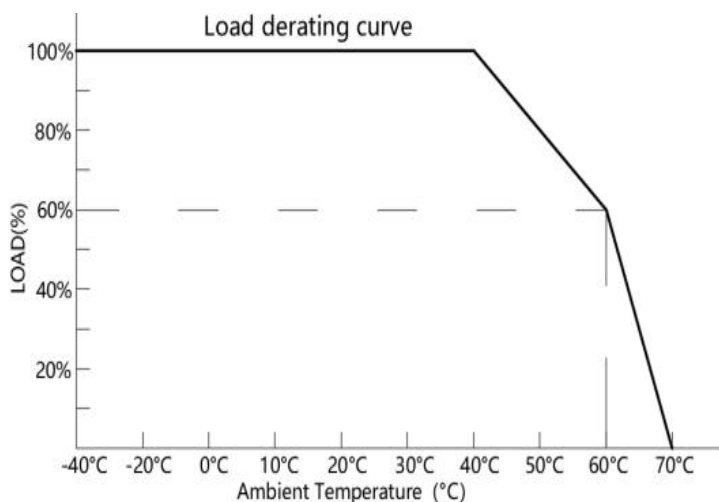
Notes

1. All parameters NOT specially mentioned are measured at rated load and 25°C of ambient temperature.
2. Tolerance: includes set up tolerance and load regulation .

Efficiency Curve (efficiency vs output load)

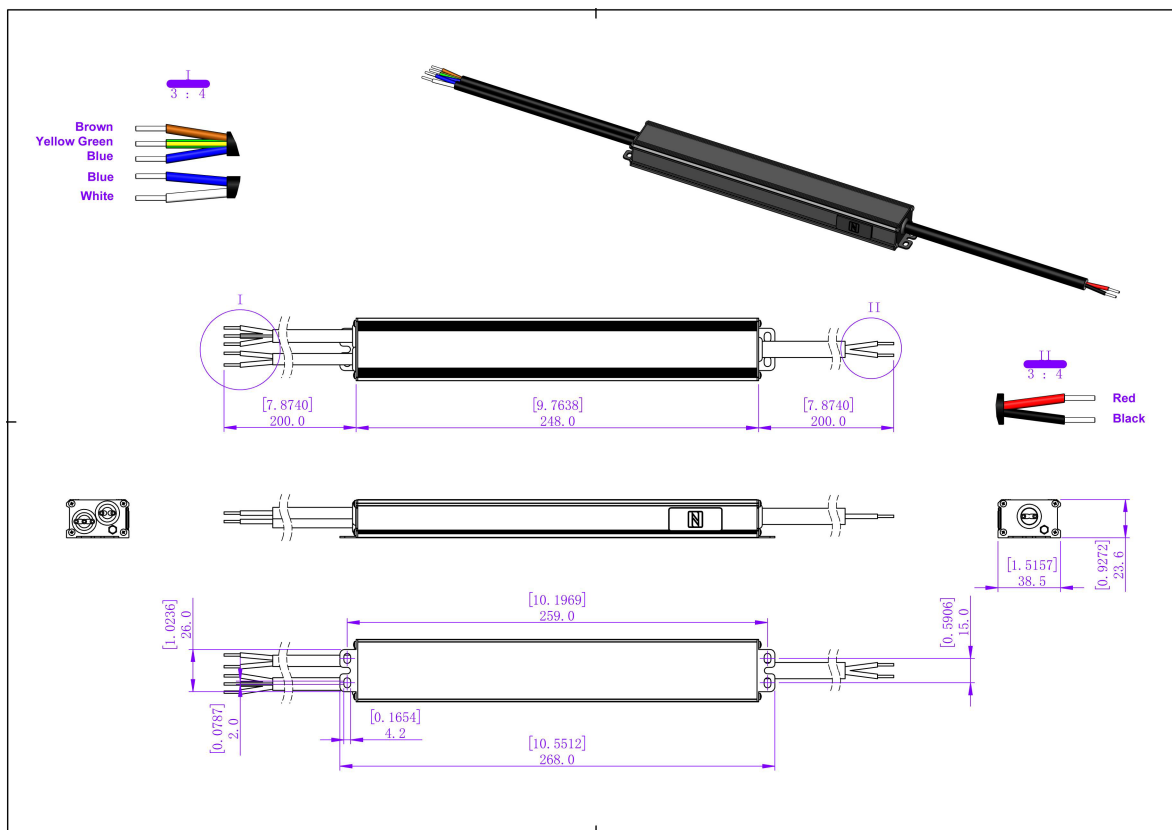


Derating Curve (output load vs TEMP.)



❖ To extend their life, please refer to the Derating Curve and derate according to the temperature.

Mechanical Specification (For European Market)



24V Version

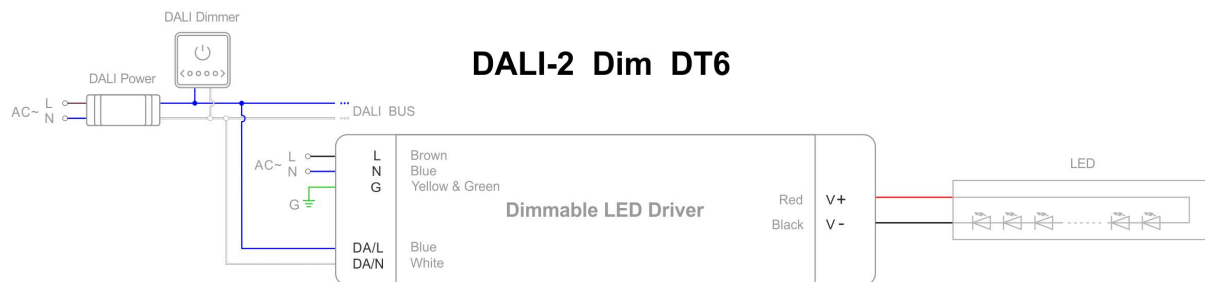
1. Input cable 3*1.0mm², the Brown cable to (L), the Blue cable to (N), and the Yellow & Green cable to (FG).
2. Output cable 2*0.824mm², Red cable (+) to Positive side(+), Black cable(-) to Negative side (-).
3. Dimming cable 2*1.00mm², White DA/N and Blue DA/L (No polar) connected to the DALI BUS.

Warm tips:

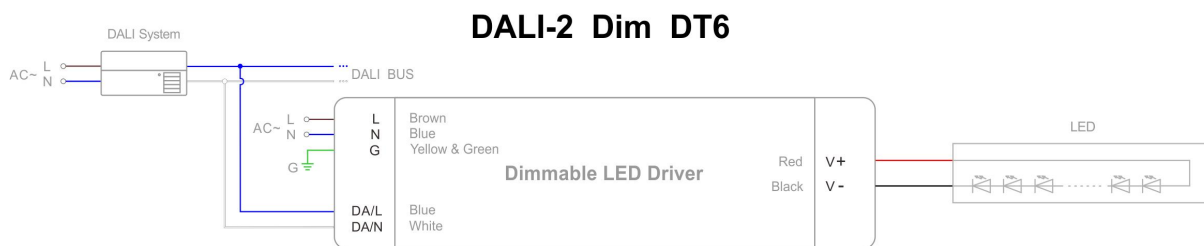
1. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Dimming Operation and Connecting Diagram (For European Market)

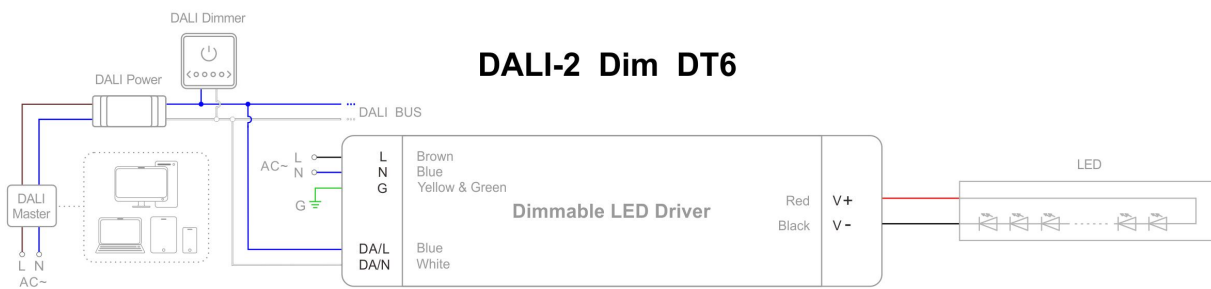
- Using DALI-2 dimming with DALI power and dimmer



- Using DALI-2 dimming with DALI system and DALI bus



- Using DALI-2 dimming with intelligent device, DALI master and dimmer





AV0D024V03066

Technical data sheet - *Scheda tecnica*

DALI-2 Dimmable LED driver 30W LED driver
30W DALI-2 Dimmerabile



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Technical data sheet - *Scheda tecnica*

DALI-2 Dimmable LED driver 30W LED driver
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