

AV0D024V30066 - 24Vdc - 300W DALI 2


FC Class P TYPE HL SELV

CE RoHS

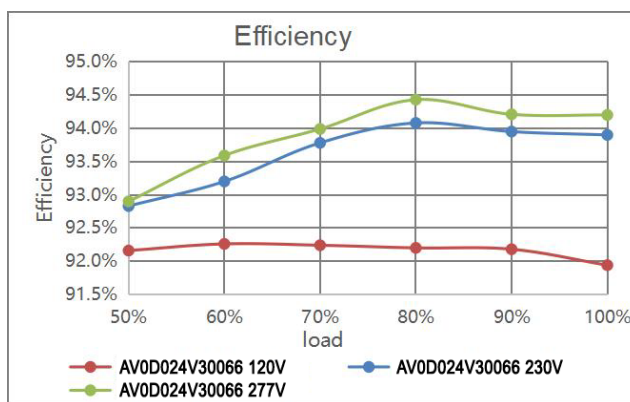
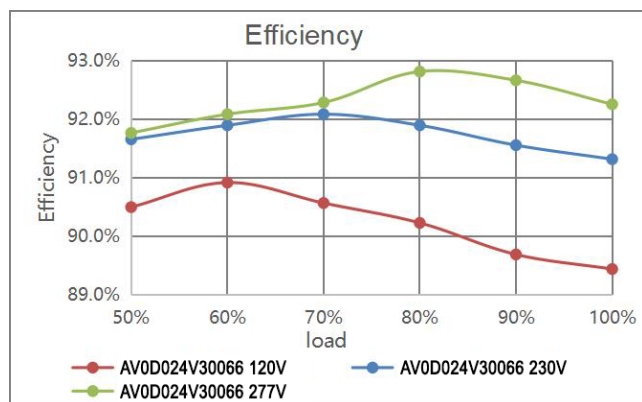

Features

Output:	Constant Voltage
Range:	110-277VAC
PFC design:	Built-in active PFC function
Efficiency:	up to 93.5%
Protections:	short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full aluminum housing, for dry, damp, wet locations, IP66
Dimming function:	DALI dim. Digital dimming, flicker-free dimming 0-100%
Dimming range:	dimming depth: 0.1%
Application:	Suitable for LED lighting and moving sign applications
Max. pcs for CB:	4(B16A) - 4(C16A)

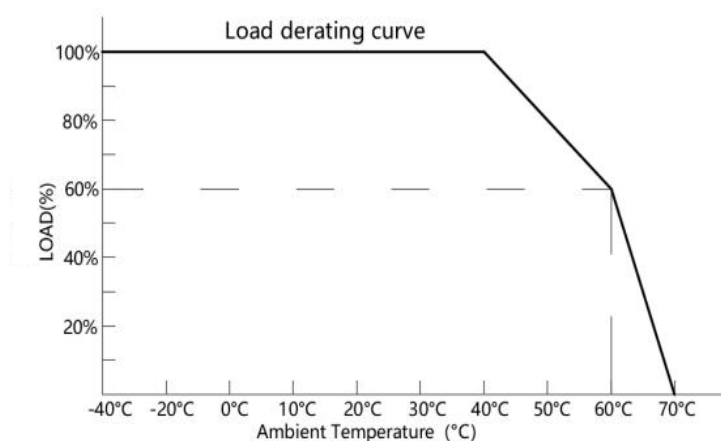
Specification

Model		AV0D024V30066
Certificate		UL / cUL / Class P / FCC / ENEC / CE / SELV / ROHS / Reach / DALI2
Output	DC Voltage	24V (24-25.5V adjust by NFC)
	Voltage Tolerance	±0.5V
	Voltage Regulation	0.5%
	Rated current	12.5A
	Rated power	300W
	Load Regulation	1%
Input	Voltage Range	110-277VAC
	Frequency Range	47 - 63Hz
	Power Factor (Typ.) @ full load	PF≥0.99@120VAC PF≥0.97@230VAC PF≥0.94@277VAC
	THD(Typ.) @ full load	≤15%
	Efficiency(Typ.) @ full load	92%@120VAC 93.5%@230VAC 93.5%@277VAC
	AC Current (Max.)	3.5A
	Inrush Current (Typ.)	60A, 9us @50%120VAC 70A, 188us @50%230VAC 180A, 4.4us @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 temperature 100C+10C shut down o/p voltage, automatically recover after the temperature drops.
Environment	Working TEMP.	-40~+60°C (see below derating curve)
	Working Humidity	20 - 95%RH non-condensing
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing
	TEMP.coefficient	±0.03%/°C(0 - 50°C)
	Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 UL8750 CAN/CSA-C22.2 No. 250.13 UL1310
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (EU) I/P-O/P:1.80KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH
	EMC Emission	EN55015 EN61000-3-2,3 (≥50%load) FCC Part 15 Subpart B
Others	Net Weight	1.15Kg
	Dimension	232*78*25.1mm (L*W*H)
	Packing	330*300*210mm
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 .

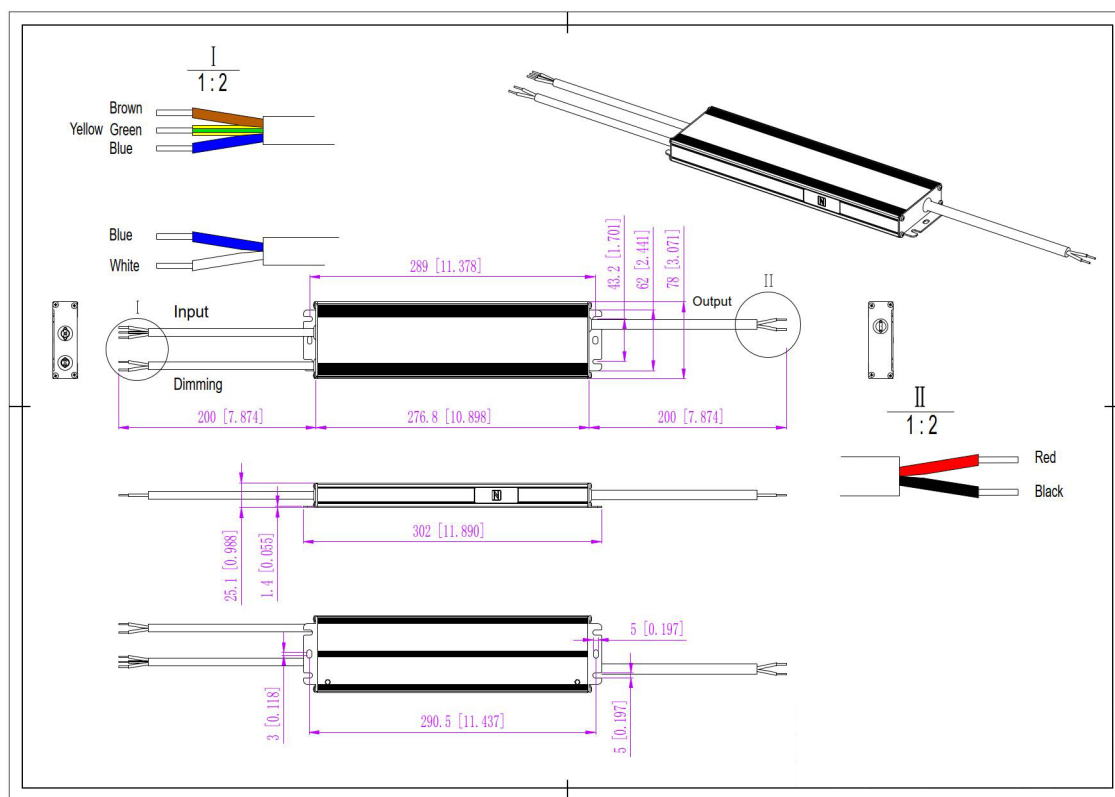
Efficiency Curve (efficiency vs output load)



Derating Curve (output load vs TEMP.)



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

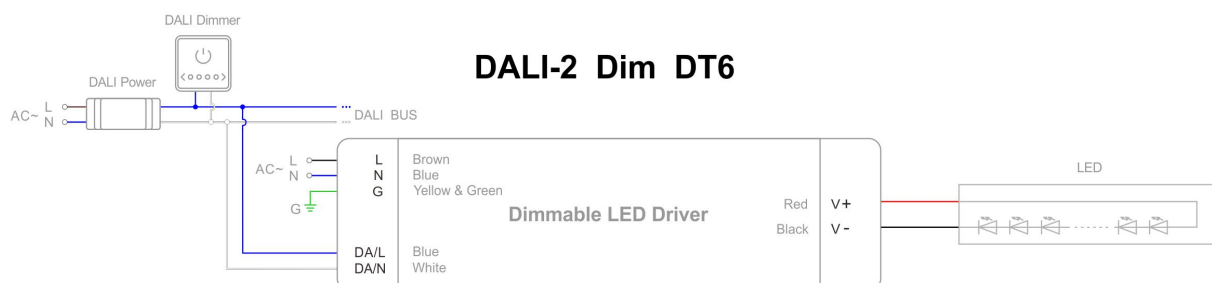


24V Version

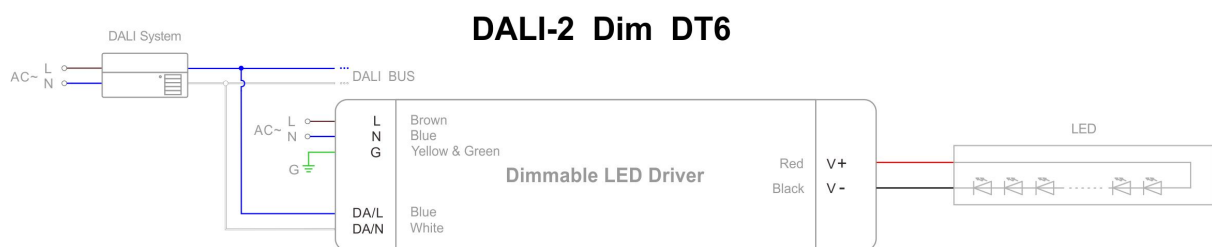
1. Input cable 3*1.0mm², the Brown cable to (L), the White cable to (N), and the Yellow & Green cable to (FG)
2. Output cable 2*2.08mm² (12V), 2*2.08mm² (24V), Red cable (+) to Positive side(+), Black cable (-) to Negative side (-).
3. Dimming cable 2*1.0mm², White DA/N and Blue DA/L (No polar) connected to the DALI BUS when use DALI function.

Dimming Operation and Connecting Diagram

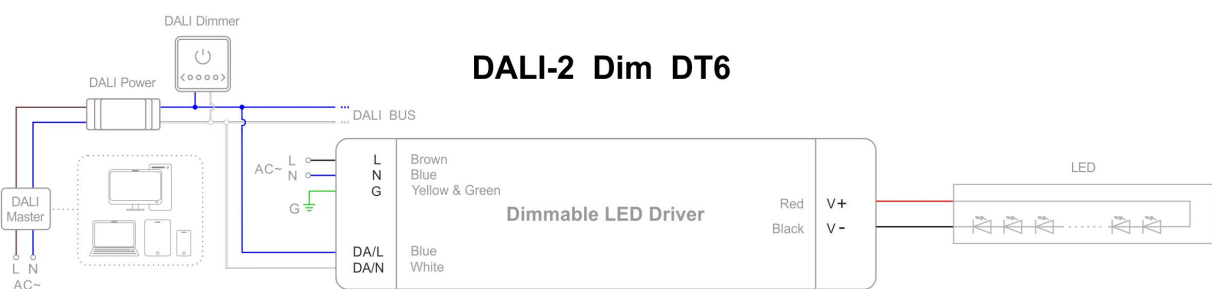
- Using DALI-2 dimming with DALI power and dimmer



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



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





AV0D024V30066

Technical data sheet - *Scheda tecnica*

DALI-2 Dimmable LED driver 300W LED driver
300W DALI-2 Dimmerabile
