POWER SOURCE

DALI Dimmable LED Driver with PWM Output

DDV-300 series



Features:

- AC Input Range: 200~240VAC
- Constant Voltage with PWM output
- Protections: Short Circuit, Over Load, Over Temperature
- Class I Power Supply
- IP66 design for outdoor installation
- Factory fitted flex and AU Plug
- DALI-2 Protocol

Model		DDV-300-24
Output	DC Voltage (V)	24V (PWM Frequenzy 4kHz)
	Voltage Tolerance	±0.5V (see Note 2.)
	Rated Current	12.5A
	Rated Power	300W
Input	Voltage range	200-240VAC
	Frequency range	47~63HZ
	Power Factor	PF≥ 0.97/230VAC Full loading
	Full load efficiency (Typ.)	93.5%
	AC current (Max.)	3.5A
	Leakage Current	<0.50mA
	Inrush Current (Typ.)	60A, 9us@50%120VAC 70A, 188us@50%230VAC 180A, 4.4us@50%
	MAX. No. of drivers on 16A Circuit breaker	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC
Protection	Short circuit	Hiccup mode, recover automatically after fault condition is removed
	Over loading (Note 4.)	≤120%, hiccup mode, recover automatically after fault condition is removed
	Over temperature	Shell surface temp.100C+10C shut down o/p voltage,automatically recover after the temperature drops.
Environment	Working TEMP.	-40 ~ +60°C (refer to de-rating curve)
	Working humidity	20-95%RH, non-condensing
	Storage TEMP., humidity	-40~+80°C,10-95%RH
	TEMP. coefficient	±0.03%/°C (0-50°C)
	Vibration	10-500Hz, 5G 12min./1 cycle, period for 72min, each along X, Y, Z axes
Safety & EMC	Safety standards	AS 61347.2.13:2018 EN62493 IP66
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25°C/70%RH
	EMC emissions (Note 3.)	EN55015, CISPR 15:2017
	EMC immunity	EN61000-4-2,3,4,5,6,11, EN61547
Others	Net. weight	1.6KG
	Size	302*78*25.1mm (L*W*H)
	Packing	350*300*215mm outside carton 20PCS /CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: Includes set up tolerance, line regulation and load regulation. 3. The LED driver is considered as a component that is operated in conjunction with final equipment. EMC performance could be affected by the complete installation. Original equipment manufacturers may need to conduct additional EMC testing and certification on the final equipment. 4. Loading range from 10% to 100%. 5. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.	

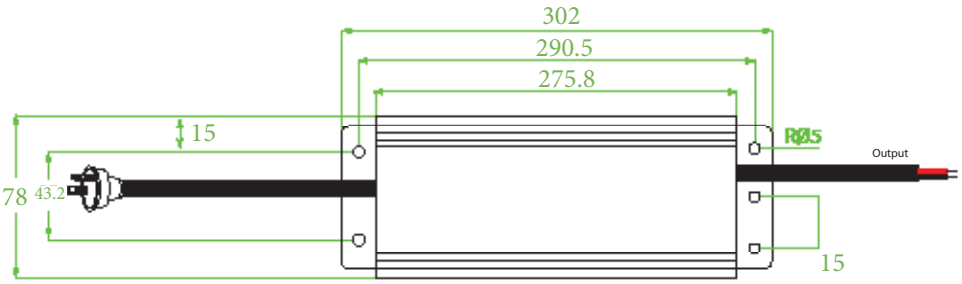
POWER SOURCE

DALI Dimmable LED Driver with PWM Output

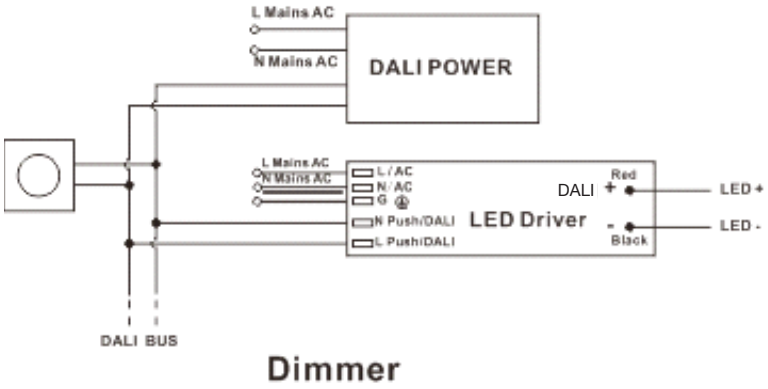
DDV-300 series

Mechanical Specifications

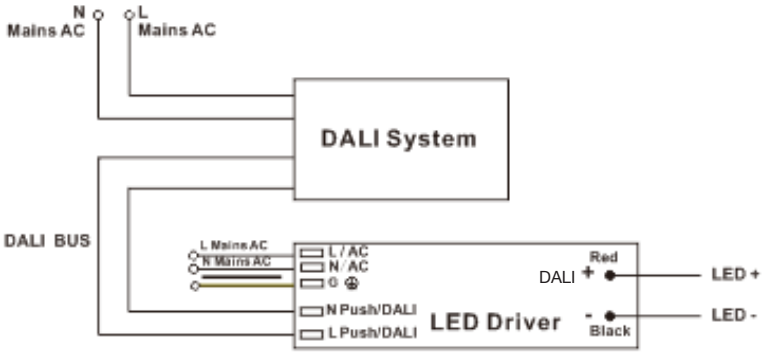
- Input: 1m AU Flex and Plug.
- Output: Rubber Cable 2*1.50mm^{2,} Red: (V+) Positive, Black: (V-) Negative.
- Dimming: Bue: DA, White DA (Non-Polarised)



Single Driver Connection Diagram

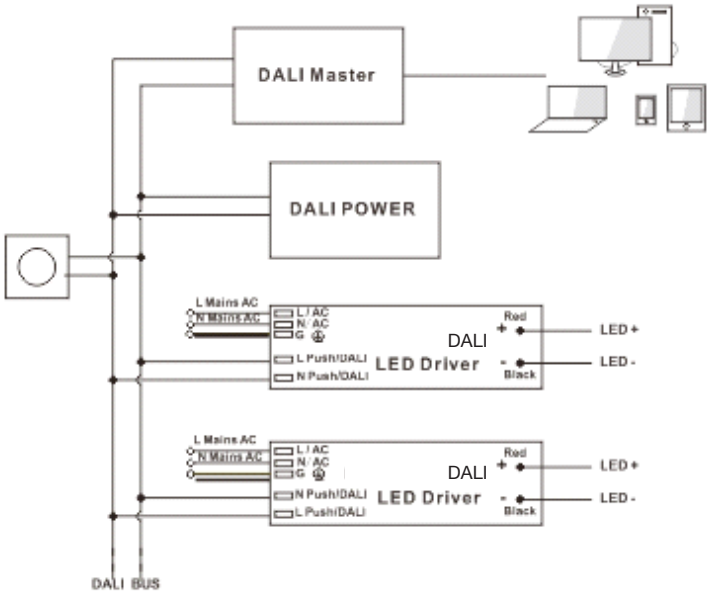


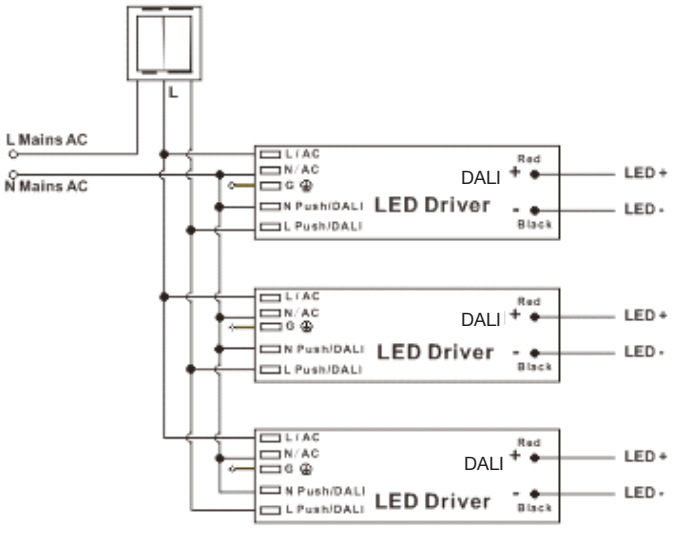
Dimmer



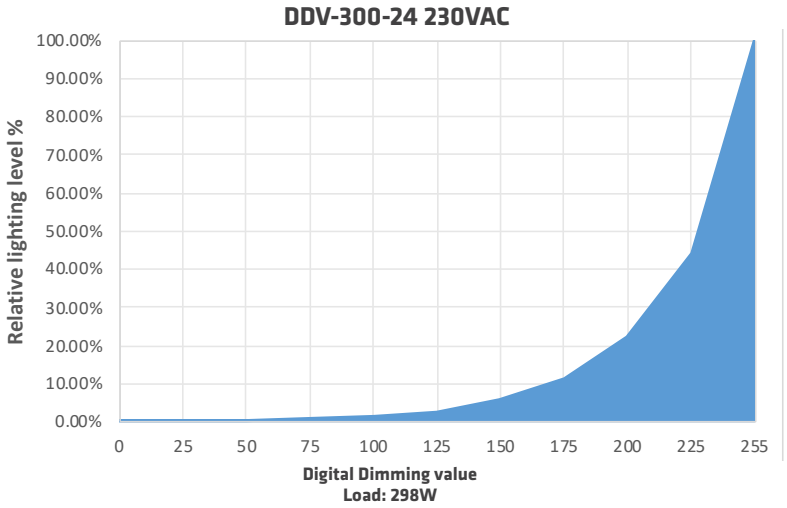
System

Multiple Drivers Connection Diagram



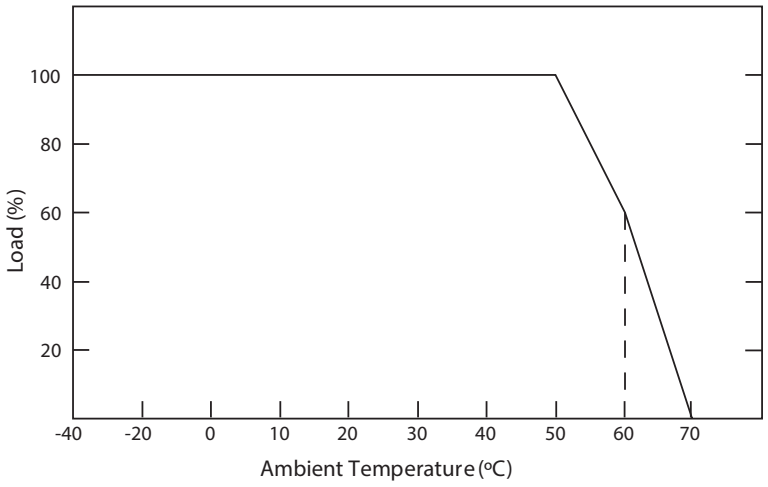


Direct Arc Power (DAP)



Illumination percentage test. Mode: DDV-300 230Vac Load: 298W										
Dimming level	25	50	75	100	125	150	175	200	225	255
Illuminance percentage (%)	0.21%	0.42%	0.66%	1.23%	2.64%	5.52%	11.25%	22.39%	44.34%	100.00%

De-rating Curve



- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a failure, which is not covered by the warranty

1) Refer to Power Source Installation Manual.
2) Do Not Cover.
3) This LED driver should be installed by a qualified electrician.
4) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
5) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.