POWER SOURCE

DALI-2 Dimmable Constant Current LED Driver with Selectable Output

DDC-40 series

DALI 2 CE IP20 SELV

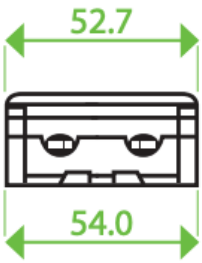
Features:

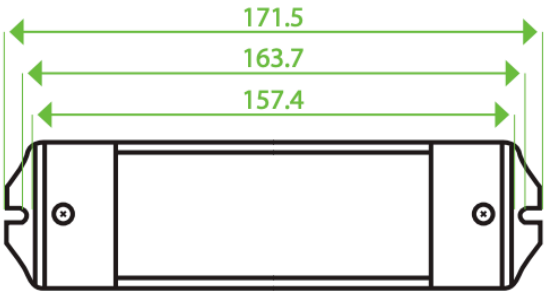
- AC Input Range: 100~277VAC with PFC
- Output Current Selectable via DIP Switch
- Protections: Short Circuit, Over Load, Over Temperature
- DALI-2 IEC62386 Compatibility
- Built in PUSH Dimming
- IP20 Design for Indoor Installation
- Class II Power Supply
- 5 year warranty

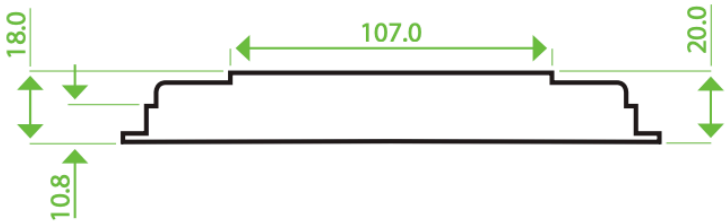
Model		DDC-40							
Output	Rated Current (mA) ±25mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA
	ON OFF	⊤⊥⊥⊥	⊤⊥⊥⊥	⊤⊥⊤⊥	⊤⊤⊥⊥	⊤⊥⊤⊥	⊤⊥⊤⊥	⊥⊤⊤⊥	⊤⊤⊤⊥
	DC Voltage	3-65V	3-65V	3-65V	3-65V	3-65V	3-65V	3-65V	3-62V
	Rated Power	19.5W	22.8W	26W	29.2W	32.5W	37.75W	39W	40W
	Current Tolerance	±5mA							
	Rated Current (mA) ±25mA	700mA	800mA	900mA	1A	1.1A	1.2A	1.3A	1.4A
	ON OFF	⊤⊥⊥⊤	⊤⊥⊥⊤	⊤⊤⊥⊤	⊤⊤⊥⊤	⊤⊥⊤⊤	⊤⊥⊤⊤	⊥⊤⊤⊤	⊤⊤⊤⊤
	DC Voltage	3-57V	3-50V	3-45V	3-40V	3-37V	3-34V	3-31V	3-29V
	Rated Power	40W	40W	40W	40W	40W	40W	40W	40W
Input	Rated Input Voltage	100-277VAC							
	Rated Frequency	47-63HZ							
	Power Factor	Full loading ≥ 0.92@230VAC							
	Efficiency (Typ.)	Full loading ≥ 85%@230VAC							
	AC Current (Max.)	0.52A							
	Inrush Current (Typ.)	10A, 46us@50%Ipeak 120VAC 55A, 2.7us@50%Ipeak 230VAC 20A, 42us@50%Ipeak 277VAC							
	Leakage Current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed.							
	Over Temperature	Ambient temp. over 50±5°C, output current will be reduced to 50%; Ambient temp. over 60±5°C, output will be off; recovers automatically after temp. drops. Ambient temp. reduce to 45±5°C, recoveres automatically							
	Protection Class	II							
Environment	Working TEMP.	-40~+60°C							
	Working Humidity	20-90%RH, non condensing							
	Storage Temp. Humidity	-40 ~ +80°C, 10-95%RH							
	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	Safety Standards	EN61347-1 EN61347-2-13							
	Withstand Voltage	I/P-O/P:3.75KVAC							
	Isolation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH							
	EMC Emissions	EN5015 EN61000-3-2							
Others	Weight	0.23kg							
	Size	171.5*54*20mm (L*W*H)							
	Packing	320*280*215mm (20PCS/CTN) for outer carton.							
Notes	1. All parameters NOT specially mentioned are measured at 277VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation. 3. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.								

Mechanical Specification

- Input 3 pole terminal block: Active AC (L), Neutral AC (N).
- Output 2 pole terminal block: Positive (LED+), Negative (LED-).
- DALI or PUSH Dim. Terminals 2P: when DALI dimming, the lines are not polarised.
- Suggested wire diameter: Input 0.75-2mm^2; Output: 0.5-2mm^2.
- Ensure that all wiring is correct before testing in order to avoid damage to the LED driver or the LEDs.

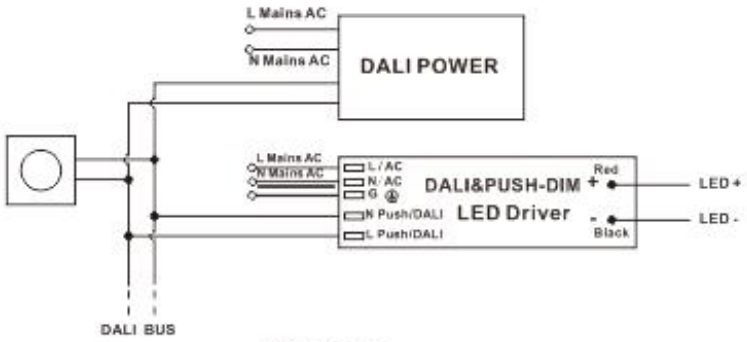






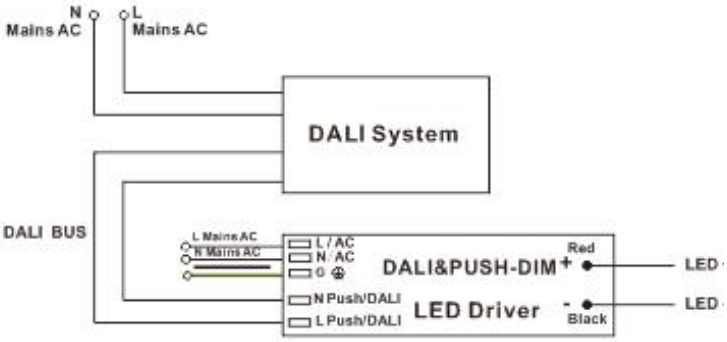
Dimming Operation

DALI Dimming Wiring Diagram1



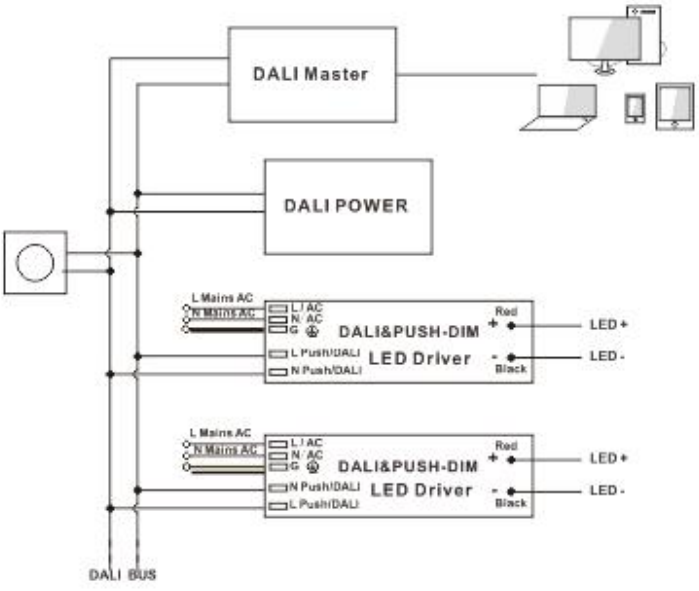
Dimmer

DALI Dimming Wiring Diagram2



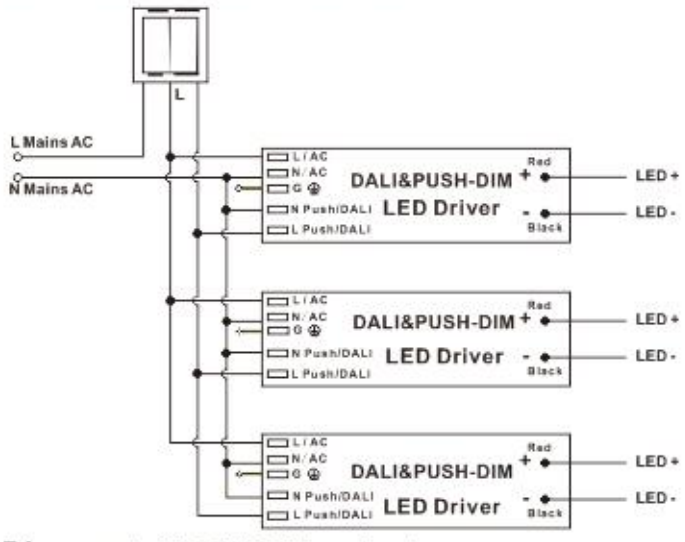
System

DALI Dimming Wiring Diagram3



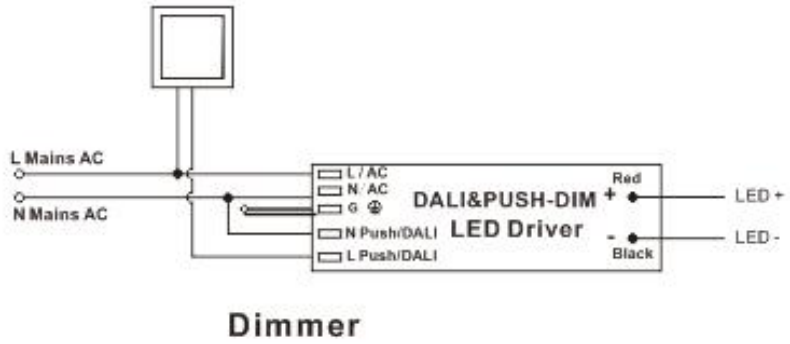
PC+DALI Master+DIMMER

Push-Dimming Wiring Diagram1



Dimmer (with ON/OFF function)

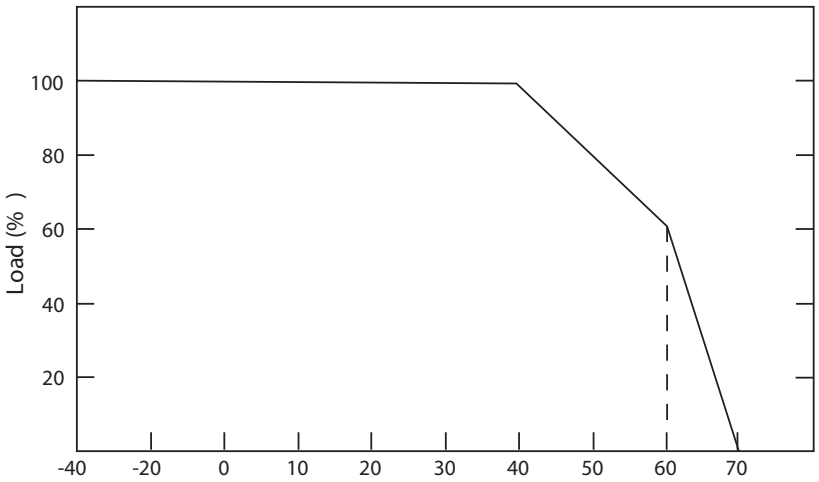
Push-Dimming Wiring Diagram2



Dimmer

- For DALI Dimming Wiring Diagram 3, please note that only one DALI power is needed in the DALI bus, so no extra DALI power is needed if the Master or Dimmer already includes the DALI power.

De-rating Curve



To extend their life, please refer to the De-rating Curve and de-rate according to the temperature.

- 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 premature failure, which is not

Instruction:

1) This driver should be installed by qualified and professional person;
2) Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3) Ensure that wiring is correct before test in order to avoid LED and power supply damage.

Any other question please feel free to contact ADM Systems Pty Ltd.