50W DALI & Push Dimmable LED Drivers

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RoHS Compliant

Features

- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 100V AC to 265V AC
- Built-in active PFC function
- Efficiency up to 84%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP20 design for indoor installation.
- Suitable for intelligent LED lighting

Models	MP007742	MP007743
Output Specifications		
Output Voltage	12V	24V
Voltage Tolerance	±0.5V	
Output Current	4.16A	2.08A
Rated Power	50W	
Load Regulation	± 2%	
Input Specifications		
Input Voltage	100V AC to 265V AC	
Frequency Range	47Hz to 63Hz	
Inrush Current	13A (Twidth=48µs 230V AC)	
Full Load Efficiency (Typ.)	81%	84%
AC Current (Max.)	0.64A	0.62A
Leakage Current	<0.5mA	
Power Factor	PF>0.95/230V AC (Full Loading)	
Protection		
Short Circuit	Constant current mode, recovers automatically after fault condition is removed	
Over Loading	≤120% constant current limiting, recovers automatically after fault condition is removed	
Over Temperature	100°C ±10°C	
Protection Class	II	
Environment		
Working Temperature	-40 to +60°C (Refer to derating curve)	
Working Humidity	20% to 95% RH, non-condensing	
Storage Temperature, Humidity	-40°C to +80°C, 10% RH to 95% RH	
Temperature Coefficient	±0.03%/°C (0°C to 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, EN62493, IP20	
Withstand Voltage	I/P-O/P:3.75KV AC	

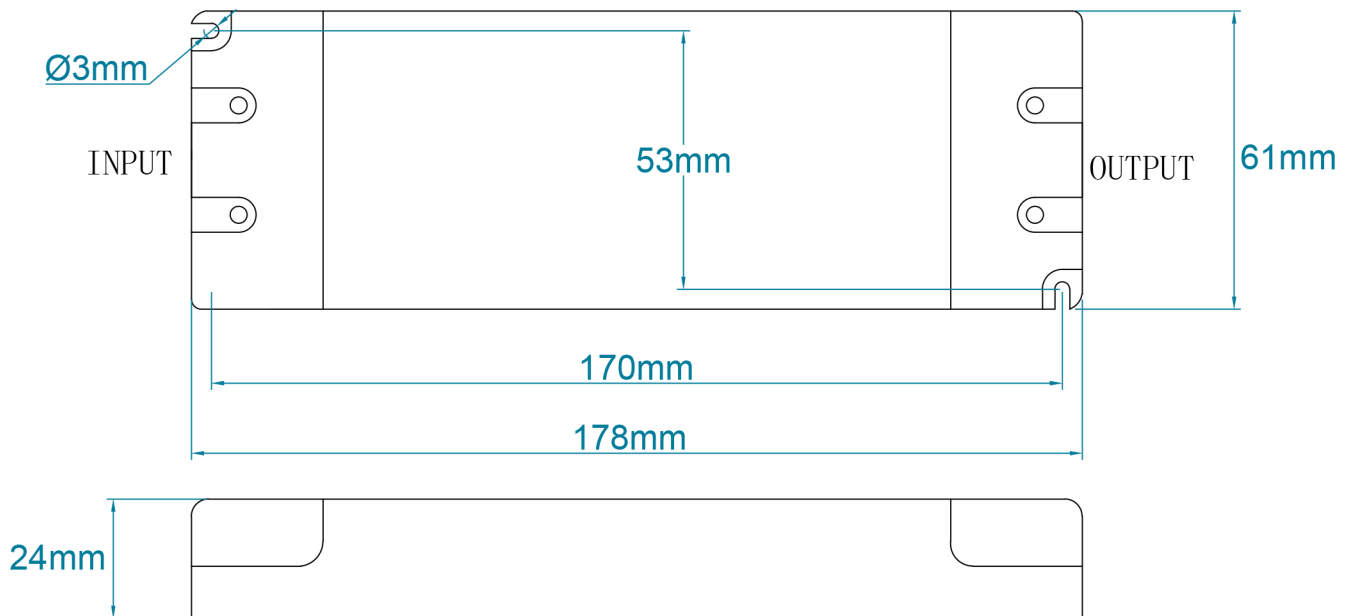Newark.com/multicomp-pro
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Models	MP007742	MP007743
Isolation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
EMC Emission	Compliance to EN55015, EN61000-3-2, EN61000-3-3 (≥60% load)	
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,11, EN61547	
Other Specifications		
Weight	0.36 Kg	
Size	178mm × 61mm × 24mm	
Packing	290mm × 215mm × 140mm (20PCS/CTN, 7.8 Kg/CTN))	

Mechanical Specification

Dimensions : Millimetres
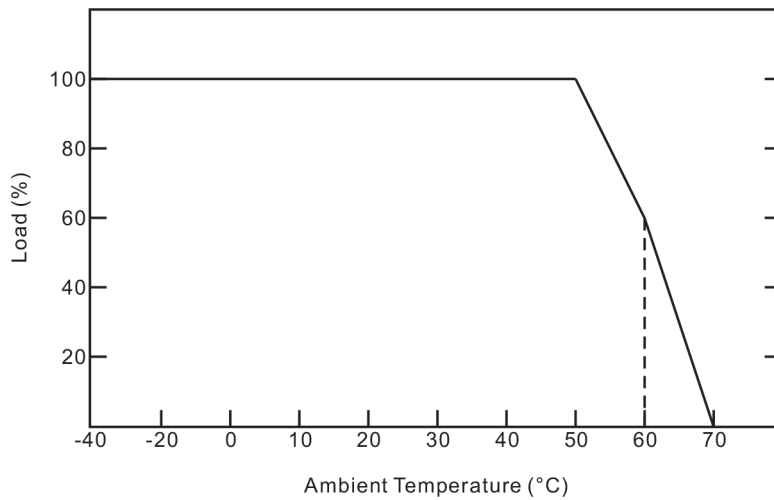
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Derating Curve

Connecting Diagram

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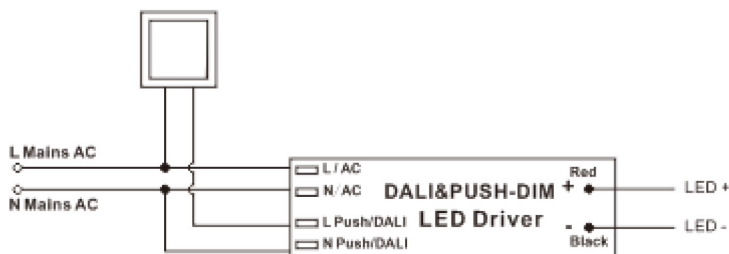# 50W DALI & Push Dimmable LED Drivers

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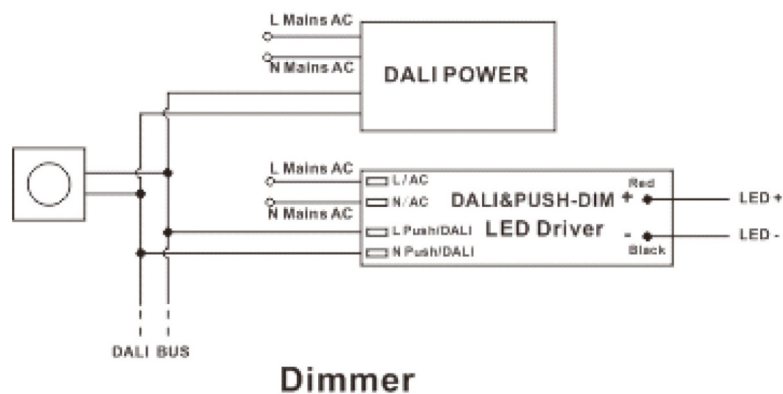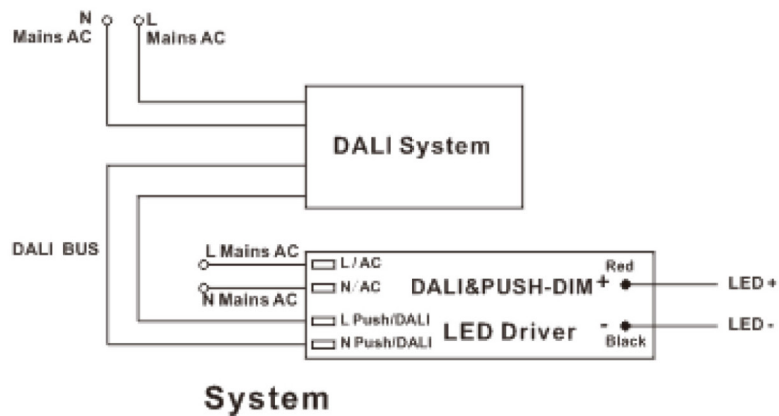
Connecting Diagram

Push-Dimming Wiring Diagram1
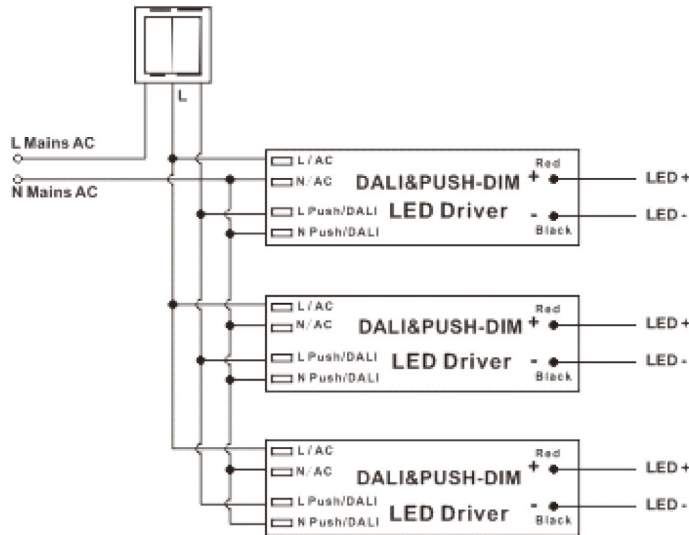
Dimmer (with ON/OFF function)

Push-Dimming Wiring Diagram2

Dimmer

Part Number Table

Description	Part Number
DALI & Push Dimmable LED Driver, 50W, 12V, IP20	MP007742
DALI & Push Dimmable LED Driver, 50W, 24V, IP20	MP007743

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