

ADDIM/50/MC

50W Multi-Current Dimmable Driver

(Dali 2, 1-10V & Switch-Dim)

1.Features



- 1) Built-in DALI2 protocol, no flicker in full dimming range;
- 2) Primary Push dimming function; Push dimming has state memory function;
- 3) Short circuit / over temperature / over voltage protection; reduce output current after over temperature;
- 4) Standby power consumption ≤ 0.5W;
- 5) 5 years warranty.

2.Parameters

		Minimum value	198V AC		
	voltage range	Typical value	230V AC		
		Max	264V AC		
	Frequency Range	Minimum value	47Hz		
		Typical value	50/60Hz		
		Max	63Hz		
land	DC voltage range	200-240V DC			
	Rated voltage	220-240V AC 50Hz /60Hz			
	input power	55W Max			
	Input Current	0.27A MAX			
Input	Inrush current	<15A (100us half current) @ 230V AC			
	Total harmonic distortion	full load output, @ 230Vac total harmonic distortion is less than			
		13%			
	Power Factor	0.95 (@ 230Vac, under full load)			
	Standby power	<0.5W			
	consumption	10.000			
	No-load power	≤1W			
	consumption				
	Leak current	<0.5mA/240V			
	Work efficiency	86% max			



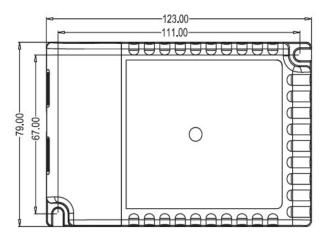
	Operating mode	СС			
Output	Load type	LED			
	Start Time	≤1S (@230Vac Under full load)			
	Ripple current	±5% (@230Vac, 100% load,LED load)			
	Strobe requirements	Full range without strobe (stroboscope test less than 2%)			
	No-load output voltage	68V Max			
	Load output voltage	9-58V			
	Full load output power	50W			
	Load current	Typical value 700mA(9-58V) 800mA(9-58V) 900mA(9-700mA(9-47V) 1200mA(9-41V) 1300mA(9-38V) 1400mA(9-35V))			
	Constant voltage accuracy / constant current accuracy	±5%			
	Primary PUSH dimming	Yes, Primary PUSH dimming (Maximum lead length: 20M)			
0	1-10V (0-10V) dimming	Yes, secondary 0-10V dimming, the darkest below 1V does not turn off			
Control Method	Dimming range	2%-100%			
Wethod	Potentiometer dimming	100K Potentiometer			
	DALI dimming	Yes (max lead length: 300m)			
	Output over load protection	Yes			
Exception	Output no load protection	Yes, self-recovery (with query function)			
Exception Protection Requirements	Output over temperature protection	Yes, without self recovery function (Can be inquired)			
	Output short circuit protection	Yes, without self recovery function (Can be inquired)			
Out a westing as	Working environment temperature / humidity	Typical value	-25 °C + 50 °C humidity: 85% (Non-condensing)		
Operating Environment	Storage temperature/ humidity	-40 °C + 80 °C 10 ∼ 95% RH (non-condensing)			
	Max. Case Temp (Tc)	85°C			
	Safety standards	EN61347-1,	EN61347-2-13, EN62493, EN60598-1		
Certification standards	Electromagnetic compatibility (EMC) standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3			
	Environmental requirements	Compliant with EU RoHS requirements			
	Certified	CE ENEC			
	Withstand voltage	3750Vac 5m	nA 60S (Input to output)		
others	Input / output (terminal / lead) specifications	Push-type terminal block Wire diameter: 0.75-1.5mm2			

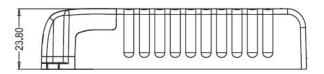


	Degrees of protection	IP20	
	Product Category	Class II appliances	
	Packaging requirement	Independent installation	
	Installation dimension	123 * 79 * 23.8mm	
	Packaging requirements	PE bag + white box + manual + partition + outer box (K = A)	
	Net Weight	210 g	
	Warranty	5 years warranty @Ta 230V full load	

Remarks: 1. All parameters are measured under the input voltage of 230Vac and the ambient temperature of $25~^{\circ}$ C, unless otherwise specified.

3. Dimension (Unit: mm)

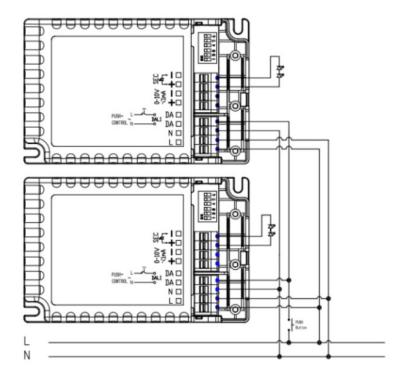




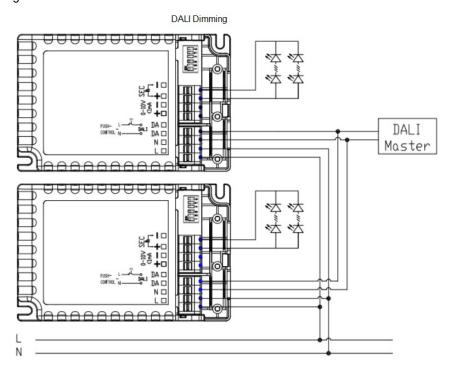


4. Wiring Diagram

1) PUSH Dimming wiring diagram



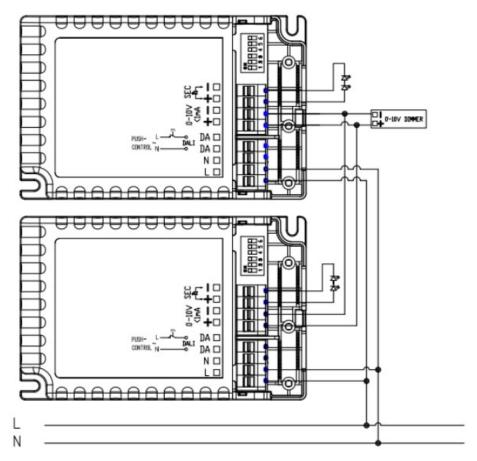
2) DALI wiring diagram



Ansell Electrical Products Limited, Unit 6B Stonecross Industrial Park, Yew Tree Way Warrington, WA3 3JD
Tel: +44 (0)1942 433333 Fax: +44 (0)1942 433433
http://www.anselluk.com
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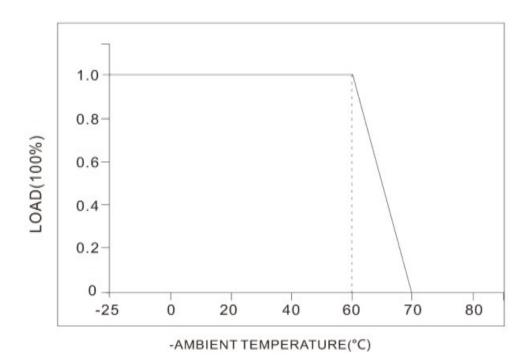


3) 0-10V dimming wiring diagram

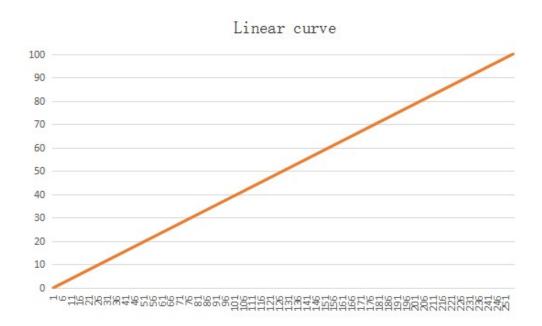




5. Derating

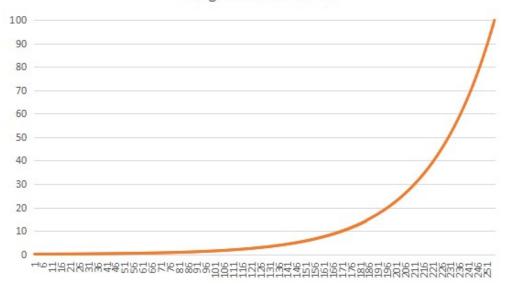


6. Dimming curve





Logarithmic curve



7. Current gear setting

	1					
Current / voltage gear setting	1	2	3	4	5	6
1400MA	ON	ON	ON	ON	ON	ON
1300MA	ON	ON	ON	ON	ON	-
1200MA	ON	ON	ON	ON	-	-
1050MA	ON	ON	ON	-	-	-
900MA	ON	ON	-	-	-	-
800MA	ON	-	-		-	
700MA	-	-	-	_	-	_



8. ON/OFF & Description of Dimming Operation

A. Short press the PUSH switch (short press time 0.1S-1S), the LED driver will turn on or off.

B. Dimming:

Press and hold the PUSH switch (1S-8S), the LED driver can achieve dimming, brightening or dimming, the dimming range is 2-100%.

C. Memory:

PUSH dimming has dimming memory function.

D. Dimming synchronization:

The power connected to the same PUSH switch can be synchronized by pressing and holding the PUSH switch for longer than 15S.

E. DALI dimming mode:

Connect the power supply to the DALI system, and it can be dimmed by the DALI host. The dimming range is 0-100%.

9. matters needing Attention

- 1) The LED string must be connected to the load before turning on the input power, otherwise the LED string may be damaged.
- 2) After the LED driver input is powered off, there will be a residual voltage at the output, which can be maintained for about 3 minutes.