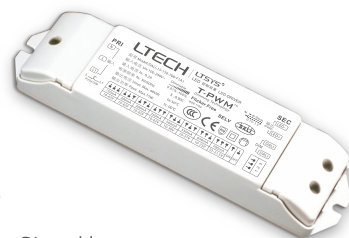


LED Intelligent Driver

- Dimming interface: DALI, Push Dim.
- T-PWM™ digital dimming, present a perfect visual experience.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Support lamp current state and fault feedback function.
- DALI dimming curve: liner curve or logarithmic curve.
- Flicker-free (IEEE 1789), achieve the level of exemption assessment.
- Innovative thermal management technology, intelligent power life protection.
- Multiple current & wide voltage, suitable for different power LED.
- Over-heat / Over load / Short circuit protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- DALI bus standard: IEC62386-101,102, 207.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I / II/III.



T-PWM™
Super depth dimming technology

Flicker-free
IEEE 1789

Dimmable:
0.01-100%



SELV



CE

RoHS



Specification

Model	DALI-15-150-700-F1A1	DALI-20-200-700-F1A1	DALI-25-200-900-F1A1	DALI-30-300-900-F1A1	
OUTPUT	Output Voltage	10-42Vdc			
	Max Output Voltage	48Vdc			
	Output Current	150-700mA	200-700mA	200-900mA	300-900mA
	Output Power Range	1.5W-15W	2W-20W	2W-25W	3W-30W
	Fluctuation Depth	Exemption assessment level.			
	Dimming Range:	0-100%, dimming depth: 0.01%			
	LF current ripple(<120Hz)	<2%			
	Current Accuracy	±5%			
	Ripple & Noise	≤2V			
PWM Frequency	≤3600Hz				
INPUT	Dimming Interface	DALI, Push Dim			
	Input Voltage Range	100-240Vac, 127-250Vdc (Push Dim is unsupported for DC input)			
	Frequency	0/50/60Hz			
	Input Current	115Vac ≤ 0.2A, 230Vac ≤ 0.1A	115Vac ≤ 0.21A, 230Vac ≤ 0.13A	115Vac ≤ 0.26A, 230Vac ≤ 0.15A	115Vac ≤ 0.31A, 230Vac ≤ 0.18A
	Power Factor	115Vac > 0.98, 230Vac > 0.9	115Vac > 0.98, 230Vac > 0.91	PF > 0.98/115Vac, PF > 0.92/230Vac (full load)	
	THD	230Vac @ THD ≤ 15% (full load)	230Vac @ THD ≤ 14% (full load)	230Vac @ THD ≤ 12% (full load)	
	Efficiency	>82%	>83%	>84%	>85%
	Inrush Current(typ.)	Cold start 3.6A at 230Vac (Iwidth=45µs measured at 50% Ipeak)	Cold start 4.9A at 230Vac (Iwidth=45µs measured at 50% Ipeak)	Cold start 6.4A at 230Vac (Iwidth=50µs measured at 50% Ipeak)	
	Control surge capability	L-N: 1kV			
Leakage Current	<0.5mA/230Vac				
ENVIRONMENT	Working Temperature	ta: -20°C ~ 50°C tc: 80°C			
	Working Humidity	20 ~ 95%RH, non-condensing			
	Storage Temp., Humidity	-40°C ~ 80°C, 10-95%RH			
	Temp. Coefficient	±0.03%/°C [0-50°C]			
	Vibration	10-500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.			
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers.			
	Over Load Protection	Shut down the output when current load ≥ 102%, auto recovers.			
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.			
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac			
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH			
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13			
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE 1789			
OTHERS	Dimension	167×41×32mm(L×W×H)			
	Packing	168×43×35mm(L×W×H)			
	Weight(G.W.)	165g±10g			

LED Current Selection

DIP switch for 8 optional currents' quick selection

DIP switch										
DALI-15-150-700-F1A1	Output Current	150mA	200mA	300mA	350mA	500mA	550mA	650mA	700mA	
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-30V	10-27V	10-23V	10-21.5V	
	Output Power	1.5-6.3W	2-8.4W	3-12.6W	3.5-14.7W	5-15W	5.5-14.85W	6.5-14.95W	7-15.05W	

DIP switch										
DALI-20-200-700-F1A1	Output Current	200mA	250mA	300mA	350mA	550mA	600mA	650mA	700mA	
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-36V	10-33V	10-31V	10-29V	
	Output Power	2-8.4W	2.5-10.5W	3-12.6W	3.5-14.7W	5.5-19.8W	6-19.8W	6.5-20.15W	7-20.3W	

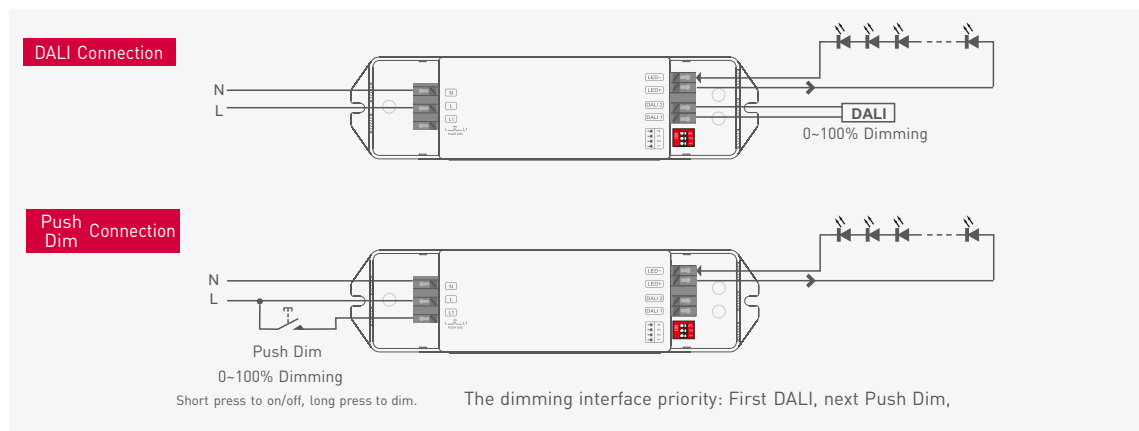
DIP switch										
DALI-25-200-900-F1A1	Output Current	200mA	300mA	400mA	500mA	600mA	700mA	800mA	900mA	
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-42V	10-36V	10-31V	10-28V	
	Output Power	2W-8.4W	3W-12.6W	4W-16.8W	5W-21W	6W-25.2W	7W-25.2W	8W-24.8W	9W-25.2W	

DIP switch										
DALI-30-300-900-F1A1	Output Current	300mA	350mA	450mA	500mA	700mA	750mA	850mA	900mA	
	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-42V	10-40V	10-36V	10-34V	
	Output Power	3W-12.6W	3.5W-14.7W	4.5W-18.9W	5W-21W	7W-29.4W	7.5W-30W	8.5W-30.6W	9W-30.6W	

* After current setting by DIP switch, power off and then power on to make the new current effective.

* E.g. LED 3.2V/pcs: 10-42V can power 3-13pcs LEDs in series, 10-21.5V can power 3-6pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Connections



Push Dimming



Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Dimensions

Unit: mm

