

LED Driver 24V 150W DALI2 DT8 Tunable white

Artikel-Nr. EGDL150-24VF8



Product description

EGDL150 series is the constant voltage LED DALI power supply. It's input voltage range of 198-264Vac, with a maximum conversion efficiency of up to 93%. It adopts a fanless design and operates within a natural cooling temperature range of -20 to +45 ° C. high power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions not only greatly improve the reliability of the product, but also ensure the product life cycle. This series of products is designed for LED lighting and is applicable to both indoor and outdoor lighting. It is suitable for various application environments in almost all indoor places where LED lamps can be installed. In compliance with DALI2.0 standards (IEC 62386-101, 102, 207, 209), innovative thermal management technology, intelligent protection of power supply life.

Standards

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493
IEC 62386-101、102、207、209
EN 50172

Characteristics

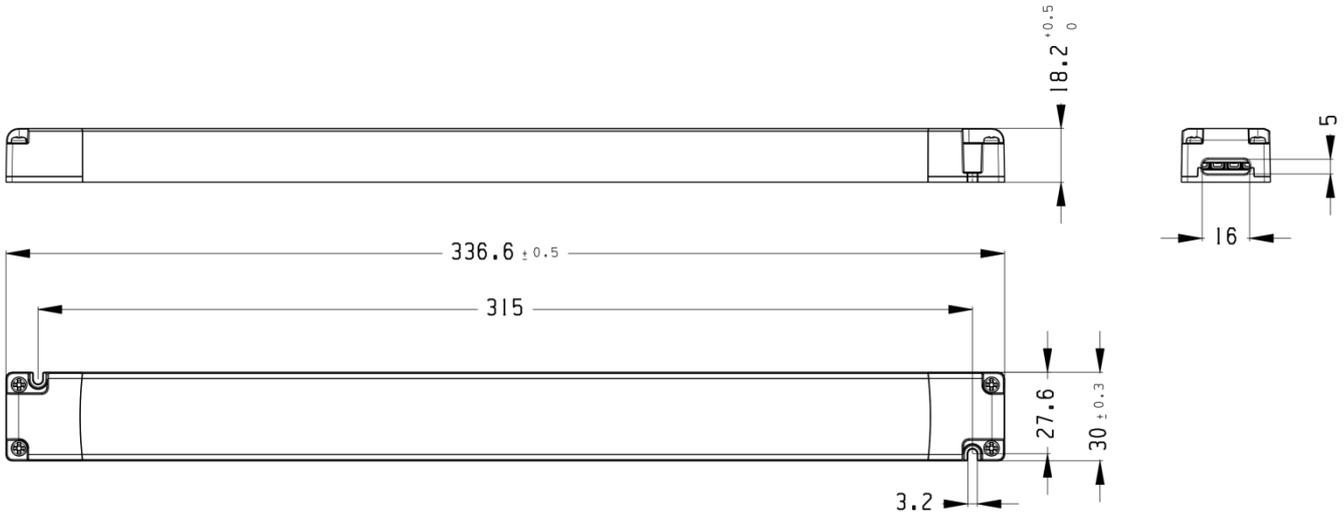
- European AC input range (220-240VAC)
- With active PFC function
- Water protection grade IP20
- DALI-2.0 DT6/DT8 dimming driver
- Built-in press dimming and color temperature adjustment function
- Dimming range: See specific model
- Suitable for dry indoor environments
- Protection type: Short circuit/over-temperature/over-voltage protection
- EOFI: 15%
- Compliant with world lighting equipment safety standards
- 5-year warranty

Specifications

Model	EGDL150-24VF8	
Output	turn on time(S)	<0.5
	output power(W)	≤150W
	output voltage(V)	24
	output voltage tolerance	≤±5%
	ripple voltage(mV)	240
	Line Regulation	1%
	Load Regulation	1%
	working current range(A)	0.625-6.25
	SVM	<0.4
	Pst	<1
	Device type	DT8
	dimming type	YES
	dimming range	0.1-100%
	BOFI	15%
Input	rated DC supply voltage(Vdc)	220-240
	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(A)	0.9
	efficiency (TYPE)	93.5%@full load
	average efficiency(TYPE) 3	92.5%
	no load power consumption(W)	≤0.5W
	power factor	0.95@full load
	Displacement factor	0.95
	THD(typ.)	10%
	inrush current(Ipk)	80A/260uS
	Leakage current (mA)	0.7@240Vac 60Hz
Protection	short circuit protection	hiccup mode, restart automatically after fault correction.
	over load protection	exceed maximum rated load
	Over voltage protection	hiccup mode, restart automatically after fault correction.
	Over temperature protection	hiccup mode, restart automatically after fault correction.
	surge capacity	L-N: 1KV
	Withstand voltage	Input-Output: 3000V/5mA/1min
Ambient and Life	Ta(°C)	-20...45(See the derating curve)
	Tc max.(°C)	max.85
	Storage Temperature(°C)	-30...80

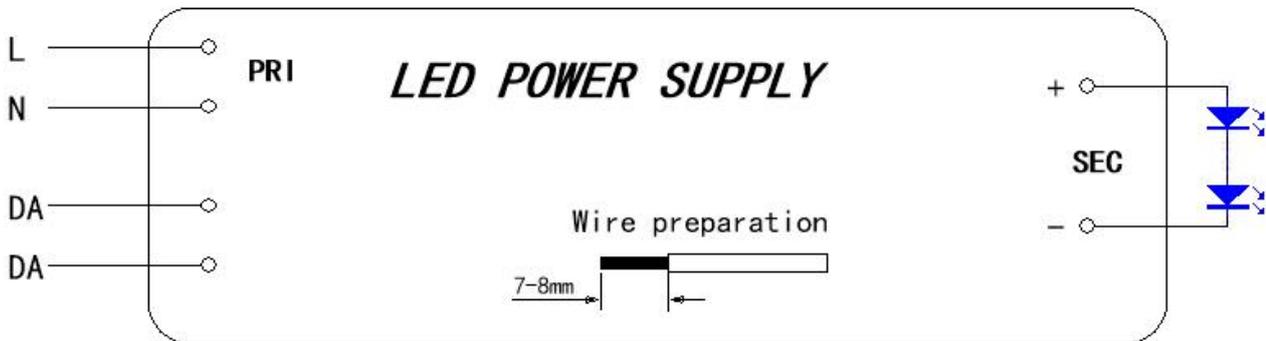
	ambient humidity range	5%...85%RH, Not condensing																			
	nominal life-time(hrs)	50'000@Ta35°C																			
Other	dimensions (L×W×H)(mm)	336.6mm*30mm*18.2mm																			
	weight(g)	310g																			
	casing material	Plastics																			
	housing colour	White																			
	type of protection	IP20																			
	protection class	class II																			
	certificate																				
Note	<p>1.Tolerance:includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values. 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</p>																				
		<table border="1"> <thead> <tr> <th>PUSH function</th> <th>DT6 or DT8 dimming</th> <th>DT8 CCT</th> </tr> </thead> <tbody> <tr> <td>Press<0.05s</td> <td colspan="2">No change</td> </tr> <tr> <td>Press 0.1-1s</td> <td>ON/OFF</td> <td>CCT cycle 2700-3000-4000-6500</td> </tr> <tr> <td>Long press 1.5-10s</td> <td>Dimming down or up</td> <td>Warm and cool color change</td> </tr> <tr> <td>Long press in off state >1s</td> <td>Dimming from the darkest</td> <td>--</td> </tr> <tr> <td>Long press 15s</td> <td>Dim all devices to 50%</td> <td>color temperature of all devices to 4500</td> </tr> </tbody> </table>		PUSH function	DT6 or DT8 dimming	DT8 CCT	Press<0.05s	No change		Press 0.1-1s	ON/OFF	CCT cycle 2700-3000-4000-6500	Long press 1.5-10s	Dimming down or up	Warm and cool color change	Long press in off state >1s	Dimming from the darkest	--	Long press 15s	Dim all devices to 50%	color temperature of all devices to 4500
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		*PUSH type dimming/color temperature adjustment																			
		*Wiring method: (For detailed wiring method, refer to the wiring diagram)																			
	*DT6 wiring: The live wire is connected to the PUSH switch to the DA/L port, and the neutral wire is directly connected to the DA/N port																				
	*DT8 wiring: The live wire is connected to the PUSH switch to the DA/L port, and the neutral wire is directly connected to the DA/N port. The PUSH function is dimming																				
	*Connect a diode with a voltage greater than 400V in series with the live wire, and then connect the PUSH switch to the DA/L port. The neutral wire is directly connected to another DA/N port, and the PUSH function is color adjustment																				
	*Dimming: long press																				
	*ON/OFF: short press																				
	*Dimming memory: When the light is turned off and turned on again, the light will return to the previously adjusted brightness level. Each long press will adjust the brightness in the opposite direction																				
	*Long press time exceeds 15S for synchronization function, all devices are uniformly adjusted to 50%, and long press again to adjust the dimming brightness downward, (DT8 color temperature will be unified to 4500K, and long press again will adjust the color temperature downward)																				

Dimensions(mm)

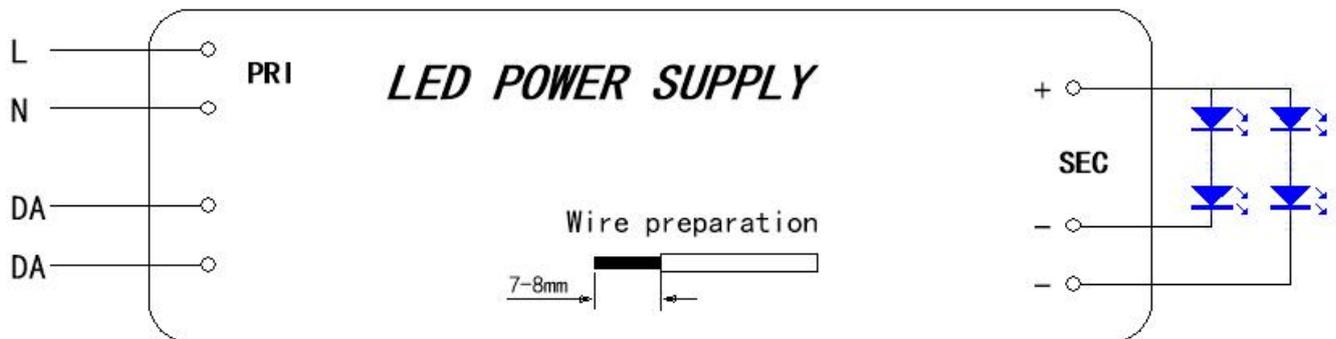


Wiring Diagram

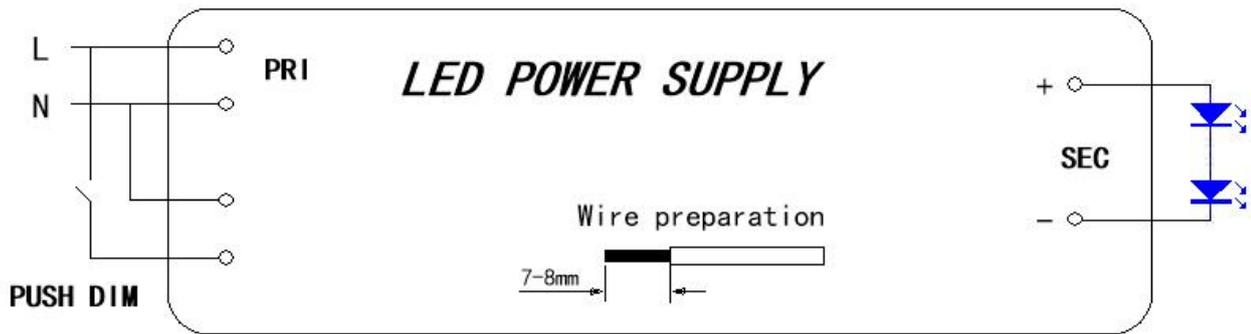
DALI DT6 Single-channel connection diagram



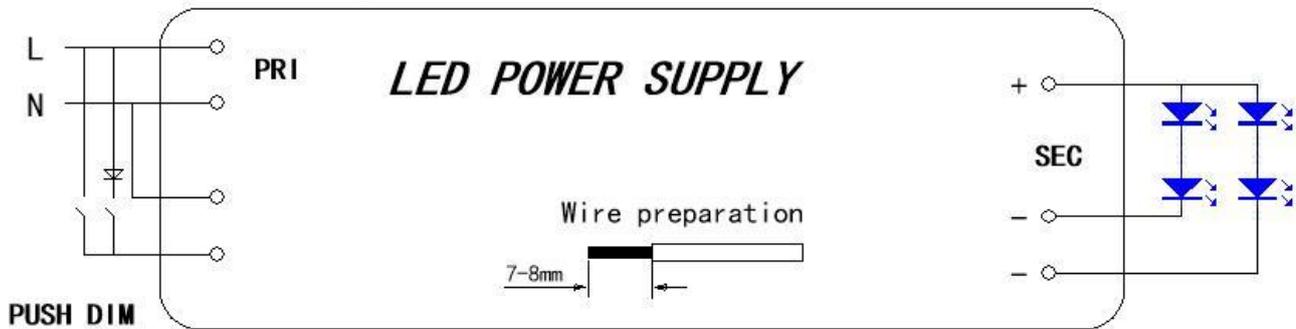
DALI DT8 connection diagram



PUSH DT6 dimming scheme connection diagram



PUSH DT8 connection diagram



PUSH CCT (incl. Diode 1N4007)

AC	H03VVH2-F 2*0.75mm ²
dali	H03VVH2-F 2*0.75mm ²
DC	H03VVH2-F 2*0.75mm ² *2(12V),H03VVH2-F 2*0.75mm ² (24V 48V)