

惠州市合智电子有限公司 Huizhou Hi-zealed Electronic Co., Ltd.

1. Product description



Isolated LED driver for class II LED luminaire.

Category: AC220-240V, plastic case, flicker free

Properties: flicker coefficient \leq 0.5%, active PFC, high PF, high efficiency,

low THD

Application: indoor office lighting, decorative lighting, commercial lighting

and residential lighting

Warranty: 5 years (Please refer to the warranty condition.)

Certificate: CE, ROHS

2. Technical data (1)

	Full model number	HZD030GXI 750	HZD030GXI 700	HZD030GXI 650		
	Output voltage		25-33Vdc / 33-40Vdc	'		
Output	Output current	750mA	700mA	650mA		
	Ripple voltage	< 2V				
	Current tolerance	±5%				
	Time to light	230Vac <0.5S				
	Temperature drift	±10%				
	Line regulation	±5%				
	Flicker coefficient	≦0.5%				
	Line regulation	±5%				
	Rated input voltage	220-240 Vac (Max input voltage: 200-264Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.25A Max				
	Power Factor	≥0.95/230Vac	≥0.94/230Vac	≥0.92/230Vac		
	THD	≤10%				
_	Efficiency	≥90%/230Vac				
Input	In-rush current (peak /duration)	I<60A/350uS@230Vac				
	Typ. power input on stand-by	Pin≤0.3W				
Protective features	No-load	Max. output voltage (no-load voltage) 55Vdc				
	Short-circuit	Hiccup mode (auto-recovery)				
Environment condition	Working temperature	-30°C ~ +50°C				
	Working humidity	20-90%RH (no condensation)				
	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)				
	Atmospheric pressure	86-106KPa				
	Certifications	CE				
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S				
Safety and	Insulation resistance	I/P-O/P: 500VDC, >100MΩ				
norms	Surge level	Comply with IEC61000-4-5(L/N:1KV)				
	EMI	Comply with EN55015, EN61000-3-2.				
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547.				
Others	SIZE/WEIGHT	Size:120x42x27mm(L*W*H).,Net weight:108g ±5%/pcs				
	IP level	IP20				
	Warranty condition	5 years (Max. case temperature must not exceed 75°C).				

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Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.		
Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% DC load.		
Additional Remark	 In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps. 		

Technical data (2)

	Full model number	HZD030GXI 600	HZD030GXI 550		
Output	Output voltage	25-33Vdc	/ 33-40Vdc		
	Output current	600mA	550mA		
	Ripple voltage	<2V			
	Current tolerance	±5%			
	Time to light	230Vac <0.5S			
	Temperature drift	±10%			
	Line regulation	±5%			
	Flicker coefficient	<i>≦</i> 0.5%			
	Line regulation	±5%			
	Rated input voltage	220-240 Vac (Max input voltage: 200-264Vac)			
	Frequency	47Hz-63Hz			
	Input current	0.25A Max			
	Power Factor	≥0.92/230Vac	≥0.90/230Vac		
	THD	≤10%			
Input	Efficiency	≥90%/230Vac			
	In-rush current (peak /duration)	I<60A/350uS@230Vac			
	Typ. power input on stand-by	Pin≤0.3W			
Protective features	No-load	Max. output voltage (no-load voltage) 55Vdc			
	Short-circuit	Hiccup mode (auto-recovery)			
Environment condition	Working temperature	-30°C ~ +50°C			
	Working humidity	20-90%RH (no condensation)			
	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)			
	Atmospheric pressure	86-106KPa			
	Certifications	CE			
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S			
Safety and	Insulation resistance	I/P-O/P: 500VDC, >100MΩ			
norms	Surge level	Comply with IEC61000-4-5(L/N:1KV)			
	EMI	Comply with EN55015, EN61000-3-2.			
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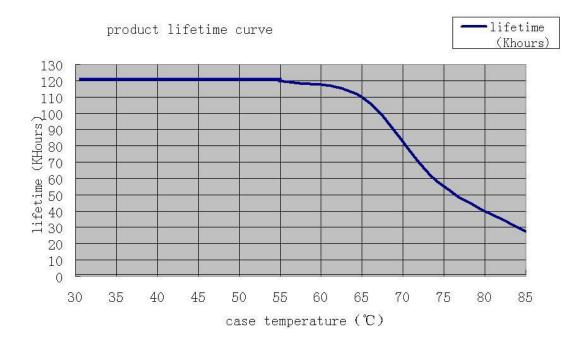
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Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% DC load.			
Additional Remark	3. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity. 4. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above. 3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.			

3. Product Referenced Lifetime Curve

1) The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches $40^{\circ}\text{C}, 50^{\circ}\text{C}, 60^{\circ}\text{C}, 70^{\circ}\text{C}, 80^{\circ}\text{C}$ and 90°C .



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