



ECG009HTEA250-C3JB	
Output Type	Constant Current
Description	9W 20-40Vdc
Input Voltage	200-240Vac
Input Frequency	50/60Hz
Warranty	3 years

LED control device specification VI.0 version

Features

- 176-264Vac input voltage range;
- Built-in active PFC function;
- Primary side electrical safety isolation;
- DM 1.0kV Lightning surge protection;
- Constant Current Output;
- Flicker-free;
- High reliability and long lifetime;
- SCR dimming;
- Suitable for indoor application, IP20;
- Protections: Short circuit / Over load;
- 3 Years warranty;



Applications

- LED Panel Lighting;
- Other LED commercial Lighting;

Description

The ECG009HTEA250-C3JB is a 9W, constant-current IP20 LED driver that operates from 200 to 240 Vac input with excellent power factor and THD feature. It is created for LED Pane Lighting and other LED commercial lighting.

The high efficiency of these drivers and compact plastic case enable them to run cooler, significantly improving reliability, SCR dimming, and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over load.



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Electrical Specifications

Model:		ECG009HTEA250-C3JB
Output	Output Power	9W Max.
		CS200-00-350-02P-YY-274/P=3.50mm/2Pin/250V/3.5A/
	Output Voltage	20-40Vdc
	Open load Voltage	<55Vdc
	Output Current	250mA
	Output Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Start-up Delay Time	<0.5S@220Vac
	Start-up Current Overshoot	<1.5 Iout
	Ripple & Noise Pk-Pk	<5%
	PST/SVM	PST<1, SVM<0.4
	Eff.@(230Vac) & Po_max	>85.5%
Input	Nominal Input Voltage	200-240Vac
	AC Current Max	0.06A Max. @200Vac
	Input Terminal	CS200-3.5-500-SL/2P
	Frequency Range	50/60Hz
	Power Factor(PF)	PF>0.88@ 200-240Vac, 80-100% Load
	Inrush Current Max	<20A @240Vac Ta=25°C
	Leakage Current	<0.5mA @ 240Vac
Protection	Short Circuit	No damage, Hiccup Mode, Auto recovery when the fault condition is removed.
	Surge Protection (KV)	DM1.0KV
	Over Temperature	Auto recovery after fault removed
Environment	Ambient Temperature	Ta :-25~+45°C (Full load)
	Operating Humidity	20~80% RH
	Storage Temperature & Humidity	-45~+90°C, 5~80% RH
	Environment Protection Rating	IP20
Safety & EMC	Safety Standards	IEC/EN61347-1(GB19510-1-2009), IEC/EN61347-2-13(GB 19510.14-2009), IEC/EN60598-1; IEC/EN60598-2-6;
	Withstand Voltage	I/P-O/P: 3.75KVac@60S; Leakage current <5mA
	Insulation impedance	Input-Output: >10MΩ@500Vdc
	EMI	EN55015;
	Harmonic Current	EN61000-3-2 Class C
	EMS	EN61000-4-2,3,4,5,6,8,11;
Others	Dimensions and Weight	99*38*27.4mm(L*W*H); 53.5g
	MTBF	>622KHours, 80%Load MIL-HDBK-217F (25°C)
	Lifetime	>50000 Hours, at 45°C

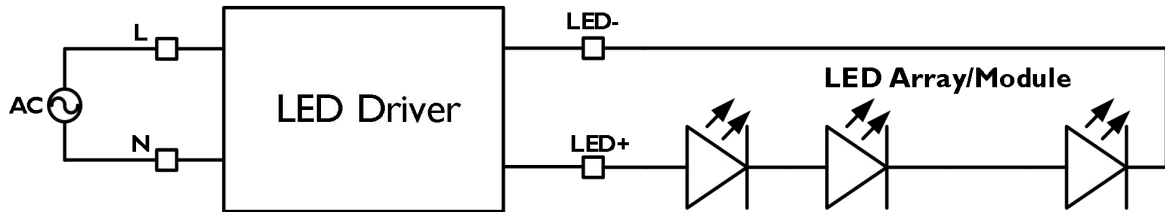


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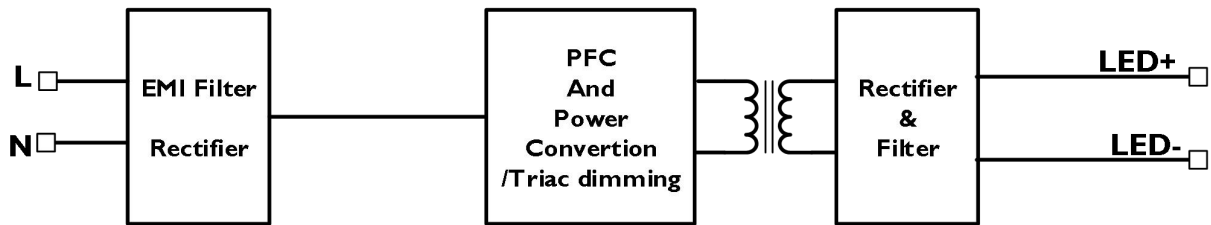
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Wiring Diagram

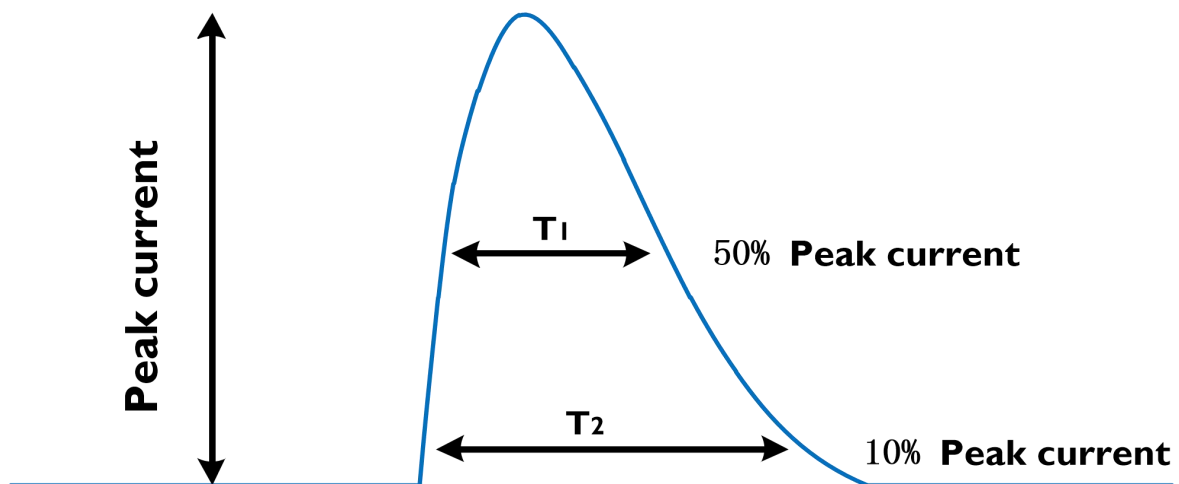


Wiring Diagram



LED Driver Circuit Block Diagram

Inrush Wave



Input Voltage	Peak current	T ₁ (50% Peak current)	T ₂ (10% Peak current)
264Vac@θ:90°	2.49A	28.8us	89us

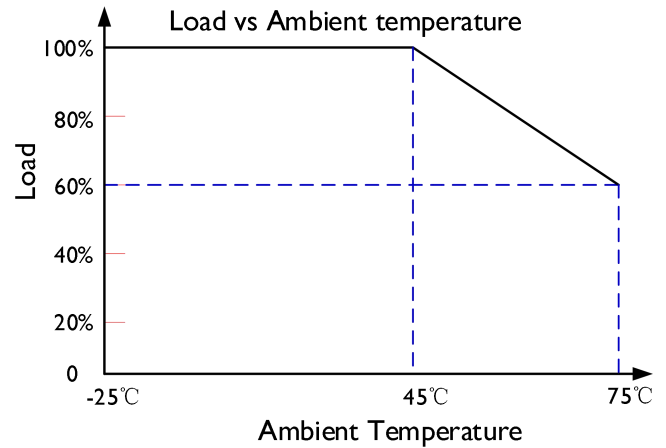
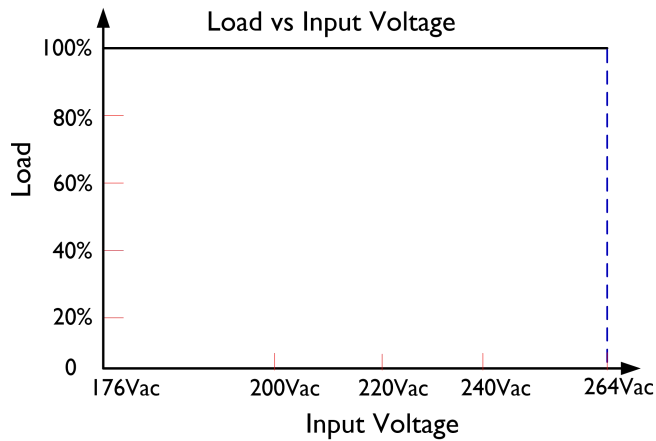


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Derating Curve



Part Number Description

ECG	009	H	T	E	A250	-	0010
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- (1) The Name of the product series;
- (2) The power of the product, 009 means 9W;
- (3) Input Voltage range, H means 200-240Vac;
- (4) Dimming Type: T means SCR dimming;
- (5) Safety certification type: E means the product match European certificated;
- (6) Output Current: A250 means 250mA;
- (7) N/A;
- (8) Customer Code

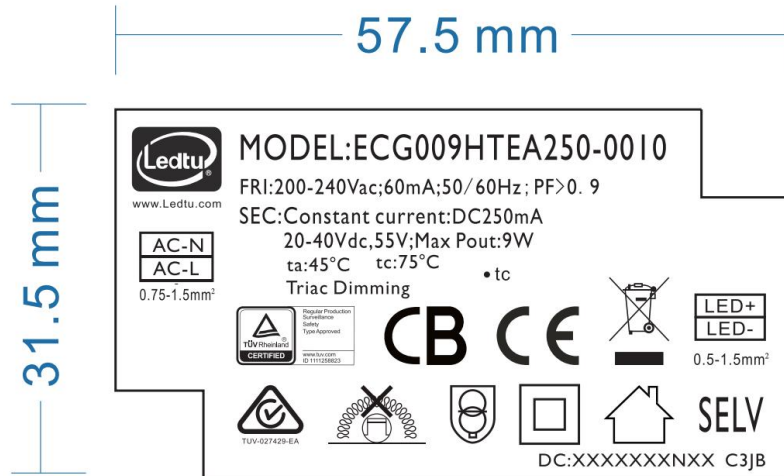


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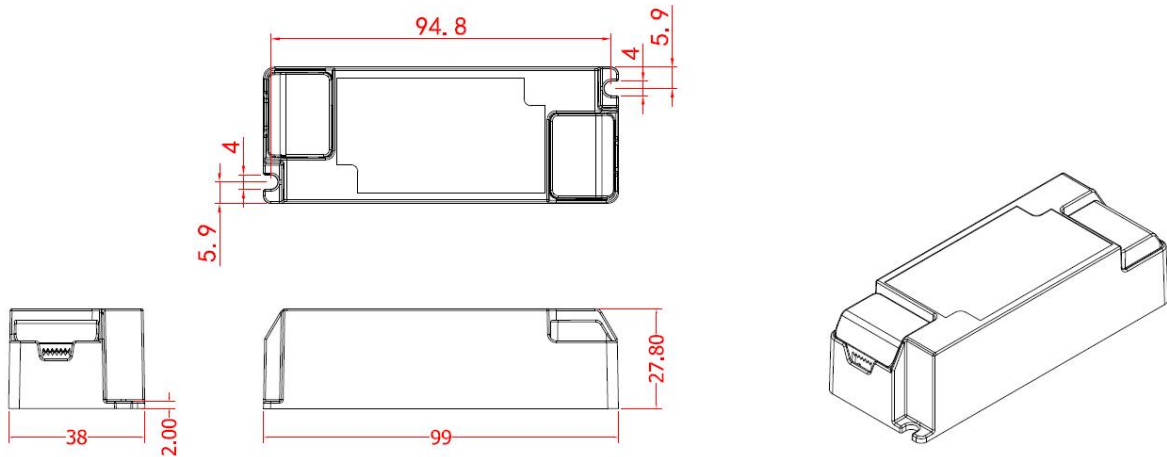
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Label



Enclosure (unit: mm)



Length	99.0mm
Width	38.0mm
Height	27.8mm

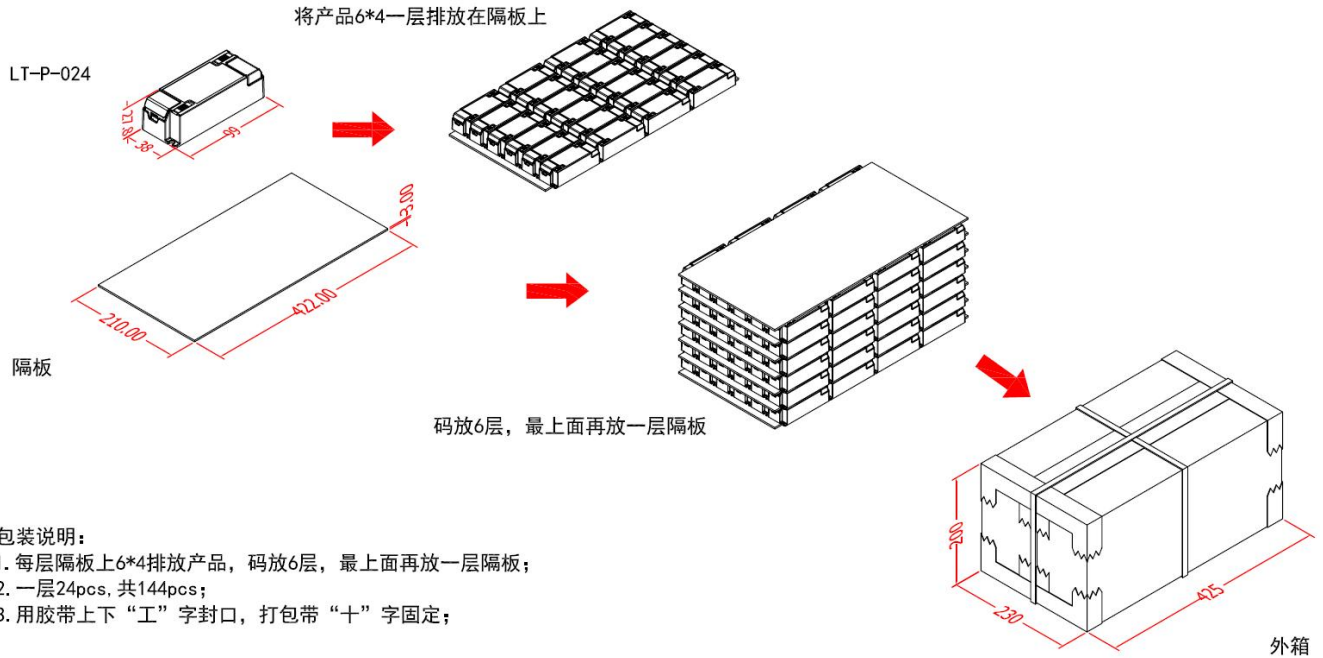


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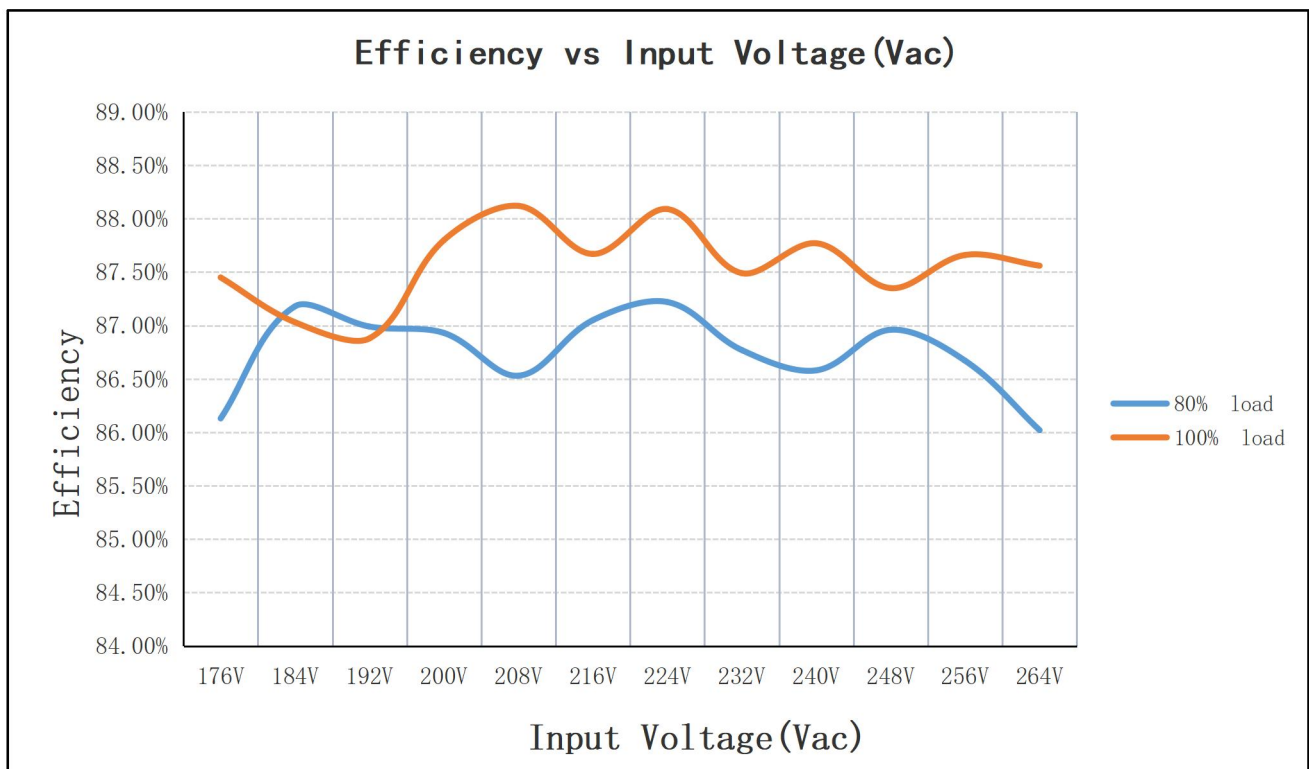
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Packaging information(unit: mm)



Packaging Unit (Pieces/Unit)	Dimensions (L*W*H)	Volume	Gross Weight
144	425mm*230mm*200mm	19.55dm ³	8.157kg

Efficiency Curve



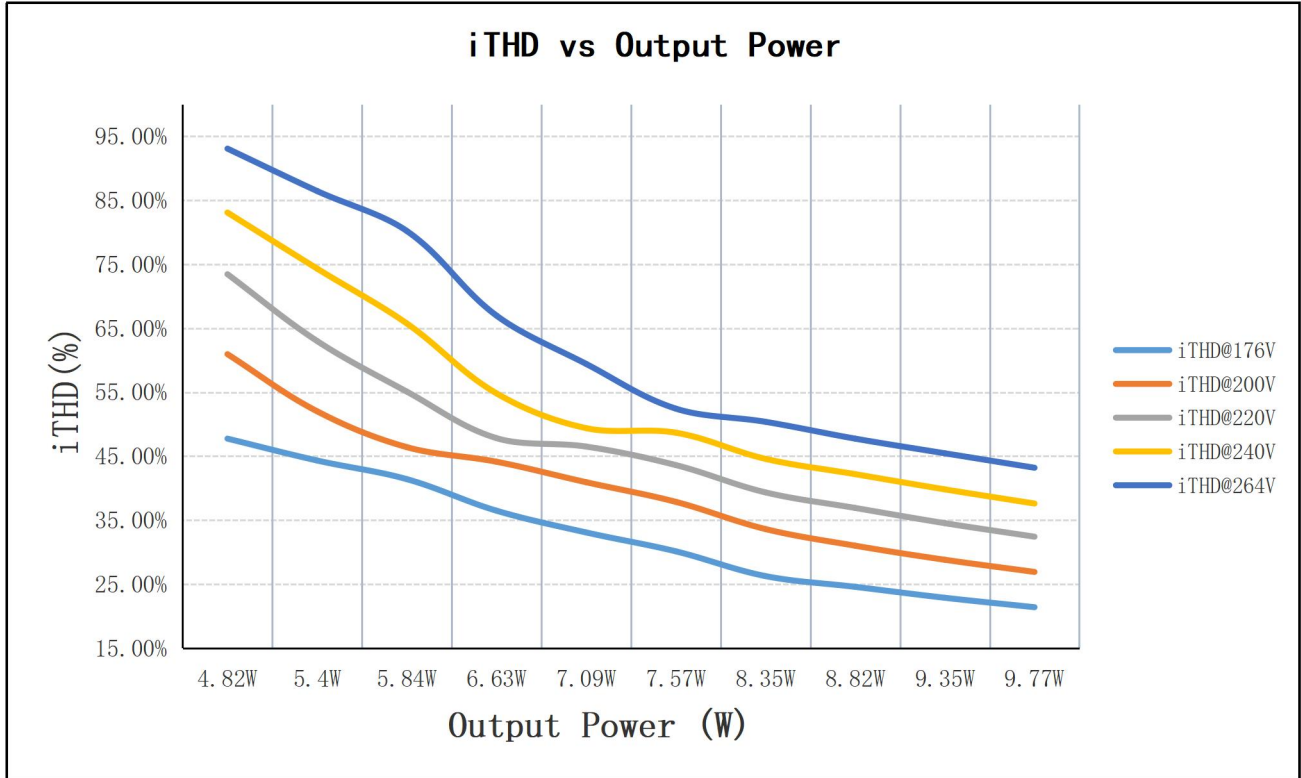


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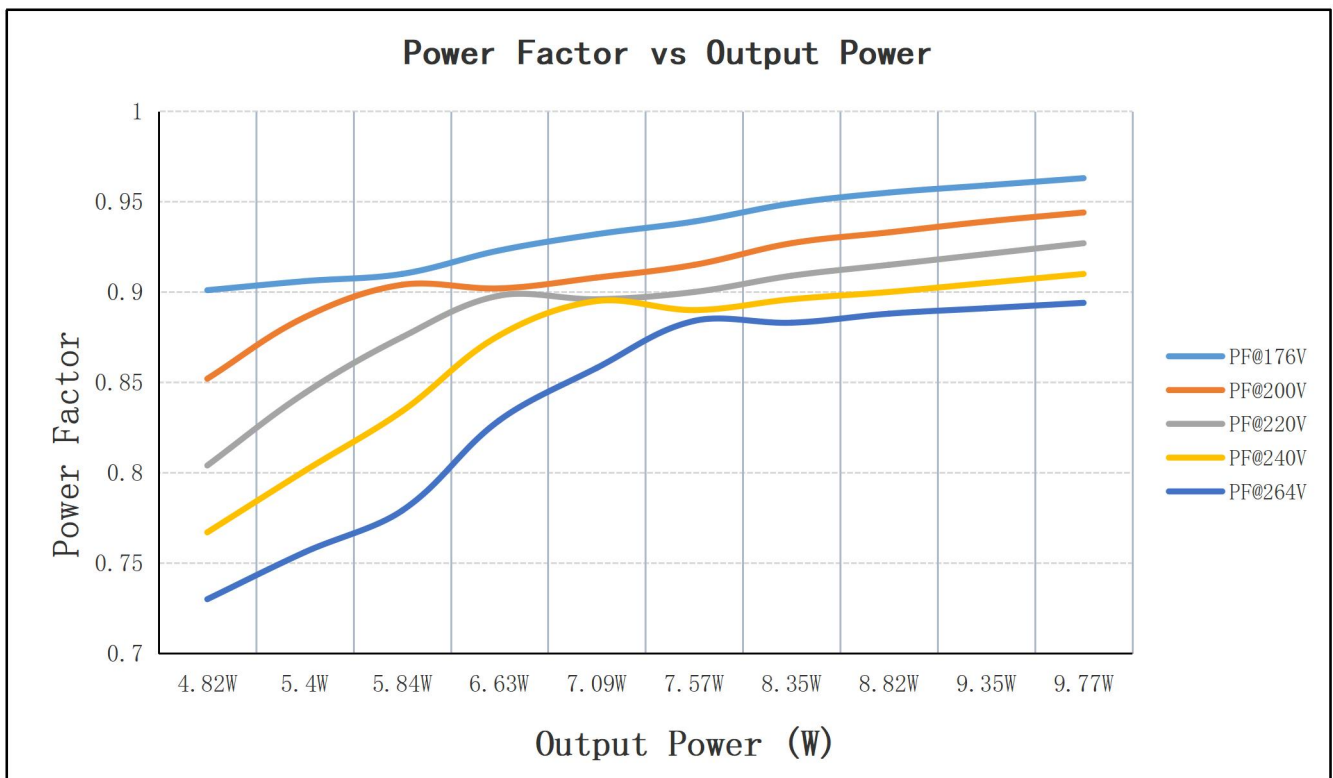
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iTHD Curve



Power Factor Curve





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Installation & Application Notes

Section I –Cautions

- 1.1 Please make sure that the input and output terminals, the positive and negative polarities of output terminal are on the right position respectively before connecting this unit.
- 1.2 To avoid getting an electric shock, do remember not to touch the unit while it is working.
- 1.3 In order to avoid effecting the reliabilities of this unit, please do not use the power which is exceed what the unit marked. If any output parameters need to be changed, please inquire the technical staff of our company.
- 1.4 In order to ensure the safety and reduce the interference, please make sure the ground lead is connected with earth.
- 1.5 In order to extend the life time, you'd better install it in a position with good ventilation and heat dissipation conditions.
- 1.6 This power's mainly used on constant current load .If your load is capacitive, inductive or resistive, do communicate with our marketing department before placing the order.
- 1.7 Please contact with the customer service department of our company as soon as possible instead of repairing it by yourself when there's something wrong with it.

Section II – Package

- 2 The product name, model, manufacturer identifier, manufacture date and so on will be on the formal packing box. And an outgoing inspection report will be sent with the products together.

Section III-Delivery

- 3 It can be delivered on ship, plane, train and so on. Keep no basking or pouring during the transportation. Handle with care.

Section IV-Storage

- 4 It should be stored in packing box when not in use. Storage temperature and humidity should be fit to the requirement. And any mordant surroundings are forbidden. At the same time, strong mechanical vibration and magnetic field effect are also prohibited. Packing box is suggested to be at least 20cm high from the ground, 50cm away from the wall, heat source and window type air inlet. It needs to be reexamined before using it if the storage time is longer than six months.

Safety and EMC Standards

EN 61347-1	Lamp control gear. Part 1 General and safety requirements
EN61347-2-13	Lamp control gear. Part 2-13, Particular requirements for DC or AC supplied electronic control gear for LED modules
EN60598-1	Luminaires-Part 1: General requirements and tests
EN60598-2-6	Luminaires - Part 2: Particular requirements; section 6: Luminaires with built-in transformers for filament lamps
EN55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
IEC61000-4	Electromagnetic compatibility(EMC)
IEC 61000-6-1	Electromagnetic compatibility(EMC)-Part 6-1: Generic standards-Immunity for residential, commercial and light-industrial environments
IEC 61000-6-2	Electromagnetic compatibility(EMC)-Part 6-2: Generic standards-Immunity for industrial environments
IEC60695-2-10	Fire hazard testing-Part 2-10: Glowing/hot-wire based test methods: Glow-wire apparatus and common test procedure
EN60950	Safety of information technology equipment
IEC61000-3-2	Electromagnetic compatibility-Limits-Limits for harmonic current emissions (equipment input current ≤16 A per phase)



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Product Model List

Model	I/P Voltage	O/P Power	O/P Voltage	O/P Current	PF	Efficiency
ECG009HTEA250-C3JB	200-240Vac	9W	20-40Vdc	250mA	>0.88	85.5%

RoHS Compliance

Our products comply with the European Directive 2011/65/EC, calling for the elimination of lead and other hazardous substances from electronic products.

Revision History

DATE	REV	Description of change				
		Item	From		To	
2022/7/5	I.0	Release				
Prepared By		Checked By		Approved By		File Number
Date		Date		Date		

Specifications are subjected to change without notice.

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