Non Waterproof LED Driver(Constant Voltage)



C F RoHS

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EPV-24-12 EPV-24-24

Feature

- Terminal block style of I/O
- 100% full load burn-in test SELV output(<60V)
- Open circuit, short circuit, overload protection
- Efficiency:80%(AC230V full load)
- 3 years warranty
- Applied to LED advertising signs , cabinet



EPV-24-12/24 → Output Voltage

Output Watts ➤ Model Name

Technical Specs

UPUT Output Voltage Range I2Vdc 12 24/dc Output Voltage Range 12/dc.5%Vdc 24/dc.5%Vdc Output Current 24 Max 14 Max Output Diver 24/dc.5%Vdc 15 Max NPUT 50-60/d 15 Max Input Frequency Range 50-60/d 15 Max Ower Efficienc/typip) 80% 81% Pr -0.6 16 Max Dever Efficienc/typip) 80% 81% Pr -0.6 16 Max Dever Urrent Protection Shut down the output when current load ± 10%, and recover automatically Shur down the output when current load ± 10%, and recover automatically and recover automatically Shur down the output when non-load voltages 13%, and recover automatically for down the output when non-load voltages 260, and recover automatically Shur down the output when non-load voltages 13%, and recover automati			EPV-24-12	EPV-24-24	
Output Voltage Range 12Vdct5%Vdc 24Vdct5%Vdc Output Voltage Range 2A Max 1A Max Output Ripple & Noise \$200mV 1A Max IPUL Terput Range \$200mV \$200mV Input Frequency Range \$00mVc2d0Vac \$50mC Input Frequency Range \$00mVc2d0Vac \$50mC Strige Current (cold star) \$00mVc2d0Vac \$50mC Strige Current (cold star) \$60mC \$60mC Peer Fficiency(typ) \$60mC \$1% ProtectToto \$1% \$1% Over-Voltage Protection \$1% Mode and necover automatically and recover automatically Over-Voltage Protection \$1% Mode and necover automatically and recover automatically Over-Voltage Protection \$1% Mode and necover automatically and recover automatically Over-Voltage Protection \$1% Mode and necover automatically and recover automatically Over-Voltage Protection \$1% Mode and necover automatically and recover automatically Over-Voltage Protection \$1% Shift down the output when non-load voltages 13V, and recover automatically Over-Voltage Protection \$1% Shift down the output when non-load voltages 13V, and recover aut					
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Output Power 24W Output Ripple & Noise <200mV	Output Voltage Range		12Vdc±5%Vdc	24Vdc±5%Vdc	
Output Ripple & Noise ≤200mV INPUT			2A Max	1A Max	
INPUT 200Vac-240Vac Input Volage Range 200Vac-240Vac Input Frequency Range 50 – 60HZ Input Current 40.22AQ200-240Vac) Surge Current (cold start) 46A @230Vac Power Efficiency (typ) 80% Power Efficiency (typ) 80% PF >0.6 Leakage Current (cold start) 40.75mA/240Vac PROTECTION Shut down the output when current load ≥ 110%, and recover automatically Over-Voltage Protection Shut down the output when convent automatically Over-Voltage Protection Shut down the output when convent automatically Over-Voltage Protection Shut down the output when non-load voltages 26V, and recover automatically Over-Voltage Protection Shut down the output vhen non-load voltages 13V, and recover automatically Over-Voltage Protection Shut down the output vhen non-load voltages 13V, and recover automatically Over-Voltage Protection Shut down the output vhen non-load voltages 13V, and recover automatically Storage Temperature -30°C-+50°C (See below output load V5 temperature profile) Vorking Temperature -35°C-+65°C Storage Humidity 10%-55%RH	Output Power		24W	·	
Input Voltage Range 200Vac:240Vac Input Frequency Range 50~60HZ Input Current 5022A(200-240Vac) Surge Current (cold start) 46A @230Vac Power Efficiency(typ) 80% 81% PF >0.6 Corrent (cold start) Ver-Current <0.75mA/240Vac			≤200mV		
Input Frequency Range 50 – 60HZ Input Current ≤0.22A(200-240Vac) Surge Current (cold start) 46A 6230Vac Power Efficiency(typ) 80% 81% PF >0.6 Leakage Current <0.75mA/240Vac	INPUT				
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Power Efficiency(typ) 80% 81% PF >0.6	Input Current		≤0.22A(200-240Vac)		
PF >0.6 Leakage Current <0.75mA/240Vac	Surge Current (cold start)		46A @230Vac		
Leakage Current <0.75mA/240Vac	Power Efficiency(typ)		80%	81%	
PROTECTION Shut down the output when current load ≥ 110%, and recover automatically Over-Current Protection Shut down the output when non-load voltages 13V, and recover automatically Shut down the output when non-load voltages 26V, and recover automatically Over-Voltage Protection Shut down the output when non-load voltages 13V, and recover automatically Shut down the output when non-load voltages 26V, and recover automatically Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Temperature Vorking Temperature -30°C-+50°C (See below output load VS temperature profile) Working Temperature Approved Enviroment Location For dry locations Storage Temperature -35°C-+65 C Storage Temperature -35°C-+65 C Storage Temperature -35°C-+65 C Storage Temperature 10%-95%RH 10%-95%RH Storage Temperature Vibration 10-500Hz, 10mm, 15 minutes(for X. Y. Z each axis) Tcase +85°C SAfety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) VP-O/P ViP-Case 1,5KVAC/ 5mA/ 1min 150M2 / 500WDC/ 1min Tomae Tomae OTHERS 100M2 / 500WDC/ 1min 100M2 / 500WDC/ 1min<	PF		>0.6		
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Over-Voltage Protection Shut down the output when non-load voltage≥ 13V, and recover automatically Shut down the output when non-load voltage≥ 26V, and recover automatically ENVIRONMENT -30°C-+50°C (See below output load V5 temperature profile) Working Humidity Working Humidity 10%-95%RH -30°C-+50°C (See below output load V5 temperature profile) Approved Enviroment Location For dry locations -35 C -+65 C Storage Temperature -35 C -+65 C -35 C -+65 C Storage Humidity 10% -95%RH -35 K - H5 C Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase rcase +85°C -485°C SAFETY&EMC	Over-Current Protection		Shut down the output when current load ≥ 110% ,and recover automatically		
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Outer Box Specifications 420*490*140mm(L*W*H) /78pcs/ctn	Dimensions		140*45*22mm(L*W*H)		
	Weight		0.11 kg		
G.W10.5kg/N.W11KG(1±10%)	Outer Box Specifications				
			G.W10.5kg/N.W11KG(1±10%)		

Remarks:

Test environment temperature : 25 ± 2°C; Ripple and noise measurement methods: terminal to parallel 47uF electrolytic capacity and 0.1uF ceramic capacity, in 20 MHZ Bandwidth measurement. "The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering)."

Non Waterproof LED Driver(Constant Voltage)



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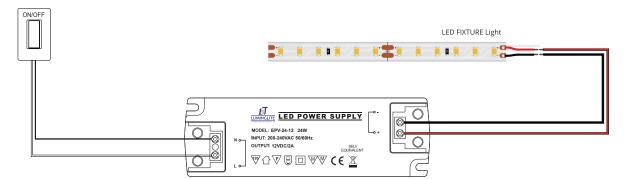
Profile Drawing

Unit:mm



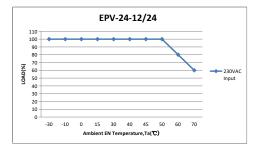


Wiring Diagram



OUTPUT LOAD vs Temperature

The EPV-24-12/24 series can be operated with cooling air temperatures between-30°C- 50°C by linearly derating the total maximum output power (or current) by 2.0%/°C from 50°C to 70°C (see figure).



Attentions

- Please ensure that the ground wire is properly grounded and ensure it does not come into contact with the neutral wire.
 Please make the power supply installed in a well-ventilated place, to ensure that the environment temperature is appropriate.
- Do not overload the power supply with multiple appliances.
 Please do not touch the metal shell surface to avoid high temperature scald.
- Do not install in the minefield or high pressure area.
 Do not attempt to repair privately. Please contact the supplier if you have any questions.

Tips

- To be installed by a certified electrician. Please read and follow the instructions carefully before installing. Ensure all contact points are connected firmly.
 Please pay attention to the using environment, and conduct regular check and maintenance to eliminate safety risks.