Non Waterproof LED Driver(Constant Voltage)



W:www.luminglite.com

E:info@luminglite.com

A:3-4F 1 building, No.399 Jin yuan 2 road, High-tech district, Zhuhai, Guangdong, China

EPV-15-12 EPV-15-24

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-15-12/24





Technical Specs

Output Voltage 12Vdc 24Vdc Output Unitage Range 12Vdcs5WVdc 24Vdcs5WVdc Output Drower 1,25A Max 0.625A Max Output Prower 15W 0.625A Max Output Prower 15W 0.625A Max Output Prower 15W 0.625A Max Output Prower 200mV 1.75M Max INPUT 1.75M Max 0.625A Max Input Current 200Vac-240Vac 1.75M Max Input Current 46A 6230Vac 81% Power Efficiency(typ) 80% 81% PER 2.0.6 1.25M Max 1.25M Max Leakage Current 40.5 4.25M Max PROTECTION 9.0.6 81% Over-Current Protection 9.0.6 81% Shut down the output when current load a 110% and recover automatically 1.00M Max May			EPV-15-12	EPV-15-24	
Output Voltage Range 12Vdcs58Wdc 24Vdcs58Wdc Output Current 1.58 Max 0.625A Max Output Rower 15W	OUTPUT				
Output Current 1.25A Max 0.625A Max Output Power 1.5W	Output Voltage		12Vdc	24Vdc	
Output Power 15W Output Ripple & Noise ≤200mV INPUT ************************************			12Vdc±5%Vdc	24Vdc±5%Vdc	
Supplie	Output Current		1.25A Max	0.625A Max	
INPUT	Output Power		15W		
Input Voltage Range	Output Ripple & Noise		<200mV		
Input Frequency Range	INPUT				
Input Current	Input Voltage Range		200Vac-240Vac		
Surge Current (cold start) 46A @230Vac Power Efficiency(typ) 80% 81% PF >0.6	Input Frequency Range		50~60HZ		
Power Efficiency(typ) 80% 81% PF > 0.6	Input Current		≤0.15A(200-240Vac)		
PF	Surge Current (cold start)		46A @230Vac		
Leakage Current	Power Efficiency(typ)		80%	81%	
PROTECTION Over-Current Protection Shut down the output when current load ≥ 110%, and recover automatically Short-Circuit Protection Hiccup Mode and recover automatically and recover automatically 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 Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35°C-+65°C Storage Humidity 10%-95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase +85°C SAFETY&EMC Safety Standard Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 10MON / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25°C) Life time 30000 hours at TC ≤80°C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Outer Box Specifications	PF		>0.6		
Over-Current Protection Shut down the output when current load ≥ 110%, and recover automatically Short-Circuit Protection Hiccup Mode and recover automatically and recover automatically 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 Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature As 5°C-+65°C Storage Humidity 10%-95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase +8°°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance DOMOΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 3000 ± 00.245±220mm(L	Leakage Current		<0.75mA/240Vac		
Short-Circuit Protection	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 Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35 C - +65 C Storage Humidity 10%-95%RH Vibration 10-500Hz, 1,0mm, 15 minutes(for X. Y. Z each axis) T case +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) ½P-Cop 3KVAC/5mA/1 min Insulation Resistance 100MΩ / 500VDC/1 min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 C) Life time 30000 hours at TC ≤80 C maximum case hot tempeture Dimensions 120*45*20mm(t*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(t*W*H) //150pcs/ctn	Over-Current Protection				
And recover automatically And recover automatically	Short-Circuit Protection				
Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35 °C ~ +65 °C Storage Humidity 10% ~ 95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC <80 °C maximum case hot tempeture	Over-Voltage Protection			Shut down the output when non-load voltage≥ 26V, and recover automatically	
Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35 C -465 °C Storage Humidity 10%~95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Case +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	ENVIRONMENT				
Approved Enviroment Location For dry locations Storage Temperature -35 C~+65 C Storage Humidity 10%~95%RH Vibration 10~500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) T case +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1 min Insulation Resistance 1.5KVAC/ 5mA/ 1 min Insulation Resistance 1.00MΩ / 500VDC/ 1 min OTHERS MTBF 1 20Khrs. MIL-HDBK-217F(25 C) Life time 30000 hours at T C ≤80 C maximum case hot tempeture Dimensions 1 20*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Working Temperature		-30°C~+50°C (See below output load VS temperature profile)		
Storage Temperature ~35 C~+65 C Storage Humidity 10%~95%RH Vibration 10~500Hz, 1.0mm, 15 minutes(for X· Y· Z each axis) Tcase +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min I/P-Case 1.5KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Working Humidity		10%~95%RH		
Storage Humidity 10%~95%RH Vibration 10~500Hz, 1.0mm, 15 minutes(for X· Y· Z each axis) Tcase +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H)/150pcs/ctn	Approved Enviroment Location		For dry locations		
Vibration 10–500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase +85°C SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Storage Temperature		~35°C~+65°C		
Tcase	Storage Humidity		10%~95%RH		
SAFETY&EMC Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at T C ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Vibration		10~500Hz,1.0mm,15 minutes(for X、Y、Z each axis)		
Safety Standard Design refer to EN61347-1,EN61347-2-13,EN62493 Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at T C ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Tcase		+85°C		
Dielectric Strength (Hi-Pot) I/P-O/P 3KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	SAFETY&EMC				
I/P-Case 1.5KVAC/ 5mA/ 1min Insulation Resistance 100MΩ / 500VDC/ 1min OTHERS 120Khrs. MIL-HDBK-217F(25 C) Life time 30000 hours at TC ≤80 C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) / 150pcs/ctn	Safety Standard		Design refer to EN61347-1,EN61347-2-13,EN62493		
Insulation Resistance 100MΩ / 500VDC / 1min OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Dielectric Strength (Hi-Pot)	I/P-O/P	3KVAC/ 5mA/ 1min		
OTHERS MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at T C ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn		I/P-Case	1.5KVAC/ 5mA/ 1min		
MTBF 120Khrs. MIL-HDBK-217F(25 °C) Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Insulation Resistance		100MΩ / 500VDC/ 1min		
Life time 30000 hours at TC ≤80 °C maximum case hot tempeture Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	OTHERS				
Dimensions 120*45*20mm(L*W*H) Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	MTBF		120Khrs. MIL-HDBK-217F(25 C)		
Weight 0.72 kg Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Life time		30000 hours at TC ≤80 ℃ maximum case hot tempeture		
Outer Box Specifications 390*240*270mm(L*W*H) /150pcs/ctn	Dimensions		120*45*20mm(L*W*H)		
· · · · · · · · · · · · · · · · · · ·	Weight		0.72 kg		
G.W12kg/N.W11KG(1±10%)	Outer Box Specifications				
			G.W12kg/N.W11KG(1±10%)		

Test environment temperature: $25 \pm 2^{\circ}$ 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)



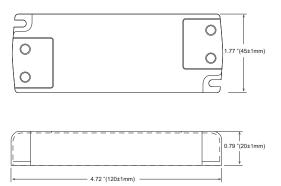
W:www.luminglite.com

E:info@luminglite.com

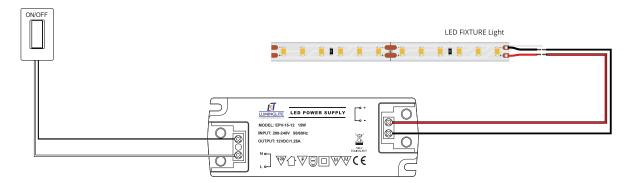
A:3-4F 1 building, No.399 Jin yuan 2 road, High-tech district, Zhuhai, Guangdong, China

Profile Drawing

Unit:mm

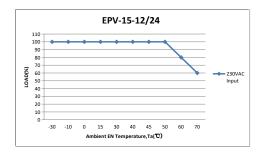


Wiring Diagram



OUTPUT LOAD vs Temperature

The EPV-15-12/24 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.