

LPV-20/35

WATERPROOF GLUE FILLING SWITCH
POWER SUPPLY



EMC CB CE

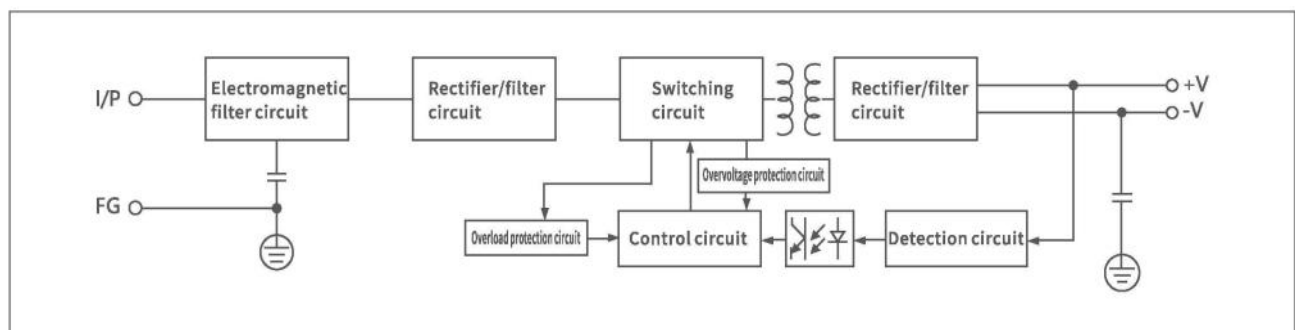


Product overview

The LPV-20/35 series is a 20/35W single group output closed type power supply that uses 200 to 240VAC full range AC input to provide 12V、24V output for the entire series.

In addition to the efficiency of up to 91.5%, the design of the metal mesh housing and full glue filling enhances the heat dissipation ability, allowing the LPV-20/35 to operate in the temperature range of -30 °C to +50 °C without a fan. Making it easy for the terminal system to meet international energy requirements. LPV-20/35 have complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The LPV-20/35 series provide a cost-effective solution for various industrial applications.

Principle diagram



LPV-20/35 SERIES

WATERPROOF GLUE FILLING SWITCH POWER SUPPLY



Technical parameter

Type	Technical indicators		
Output	Dc voltage	12V	24V
	Ripple and noise ①	<120mV	<150mV
	Voltage accuracy	±5%	
	Linear adjustment rate	<2%	
	Load adjustment rate	±1%	
	Start up time	500ms、20ms、50ms: 230VAC	
Input	Voltage range/frequency	200-240VAC 47Hz~63Hz	
	Efficiency (typical) ②	>81%	>83%
	Impulse current	220VAC: 60A	
	Leakage current	<2.5mA 240VAC	
Protection characteristics	Overload protection	105%-135% protection type: burping mode, automatic return to normal after removing abnormal conditions	
	Overvoltage protection	115%-145% protection type: close the output, restart and automatically return to normal	
	Short circuit protection	+VO drops to undervoltage point to close output	
Environment	Operating temperature、humidity	-30℃~+50℃; 20%~90RH	
	Storage temperature、humidity	-40℃~+85℃; 10%~95RH	
Security	Withstand voltage	Input-output: 3KVAC duration: 1 minute	
	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 mΩ	
Other	Size	126*41*27mm(L*W*H)	
	Net weight/gross weight	310g/340g	
Remarks	①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at 20MHz bandwidth. ② The efficiency is tested at the input voltage of 230VAC, rated load and ambient temperature of 25 °C. Precision: including setting error, linear adjustment rate and load adjustment rate. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. The starting time is measured under the cold start state. Fast and frequent startup and shutdown may increase the starting time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.		

Type	LPV-20	
DC voltage	12V	24V
Rated current	1.67A	0.8A
Rated power	20W	20W
Operating current	0.32A/230VAC	

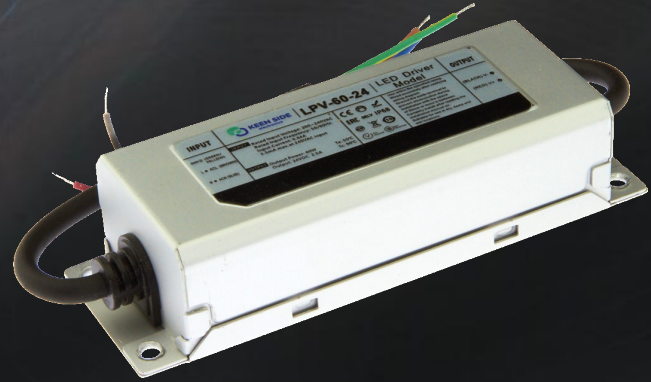
Type	LPV-35	
DC voltage	12V	24V
Rated current	3A	1.5A
Rated power	36W	36W
Operating current	0.32A/230VAC	

LPV-60

WATERPROOF GLUE FILLING SWITCH
POWER SUPPLY



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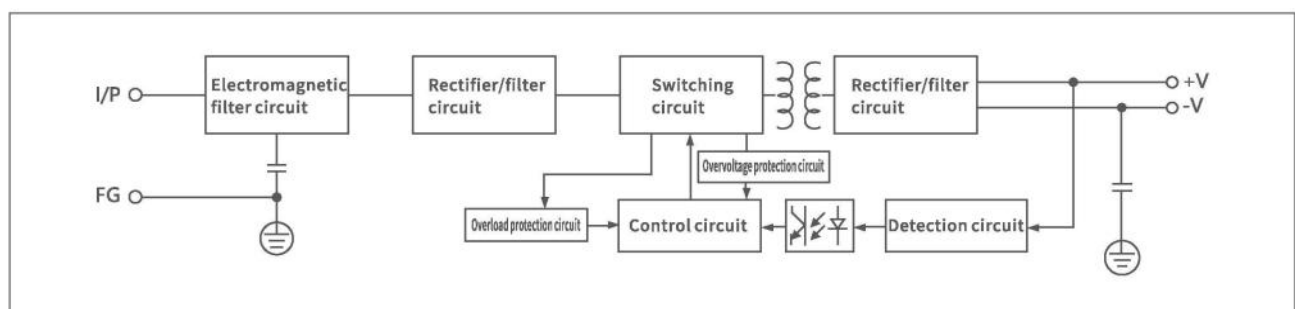


Product overview

The LPV-60 series is a 60W single group output closed type power supply that uses 200 to 240VAC full range AC input to provide 12V、24V output for the entire series.

In addition to the efficiency of up to 91.5%, the design of the metal mesh housing and full glue filling enhances the heat dissipation ability, allowing the LPV-60 to operate in the temperature range of -30 °C to +50 °C without a fan. Making it easy for the terminal system to meet international energy requirements. LPV-60 have complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The LPV-60 series provide a cost-effective solution for various industrial applications.

Principle diagram



LPV-60 SERIES

WATERPROOF GLUE FILLING SWITCH POWER SUPPLY



Technical parameter

Type	Technical indicators		
Output	Dc voltage	12V	24V
	Rated current	5A	2.5A
	Rated power	60W	60W
	Ripple and noise ①	<120mV	<200mV
	Voltage precision	±5%	
	Load adjustment rate	±2%	
	Linear adjustment rate	±1%	
	Starting and rising time	500ms、20ms、50ms: 230VAC	
Input	Voltage range/frequency	200-240VAC 47Hz~63Hz	
	Efficiency (typical) ②	>81%	>83%
	Working current	0.54A/240VAC	
	Impulse current	220VAC: 60A	
Protection characteristics	Overload protection	105%-135% protection type: burping mode, automatic return to normal after removing abnormal conditions	
	Overvoltage protection	115%-145% protection type: close the output, restart and automatically return to normal	
	Short circuit protection	+VO drops to undervoltage point to close output	
Environment	Working temperature and humidity	-30℃~-+50℃; 20%~90RH	
	Storage tenperature and humidity	-40℃~-+85℃; 10%~95RH	
Security	Withstand voltage	Input output :3KVAC 1 minute	
	Leakage current	Input shell: 240VAC <2.5mA	
	Isolation resistance	Input - output and input - shell, output - shell: 500 VDC / 100 MΩ	
Other	Size	143*49*31mm(L*W*H)	
	Net weight/gross weight	360g/390g	
Remarks	①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at 20MHz bandwidth. ② The efficiency is tested at the input voltage of 230VAC, rated load and ambient temperature of 25 °C. Precision: including setting error, linear adjustment rate and load adjustment rate. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. The starting time is measured under the cold start state. Fast and frequent startup and shutdown may increase the starting time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.		

LPV-100

WATERPROOF GLUE FILLING SWITCH
POWER SUPPLY



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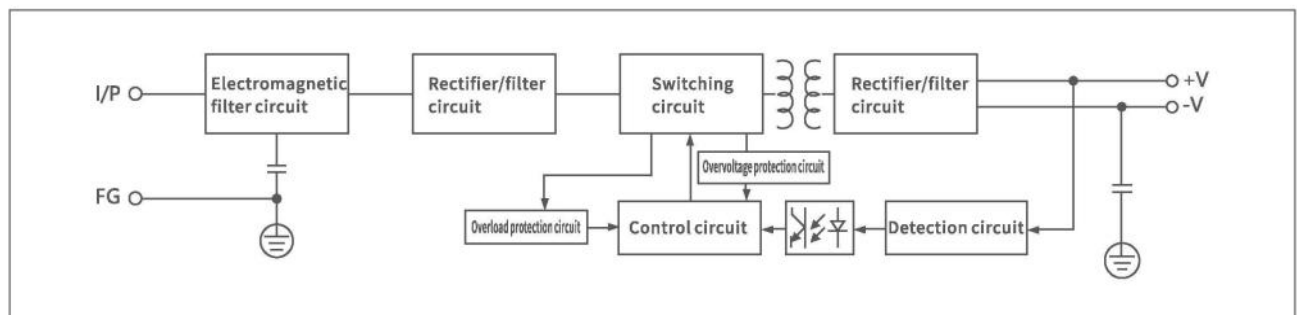


Product overview

The LPV-100 series is a 100W single group output closed type power supply that use 200 to 240VAC full range AC input to provide 12V、24V output for the entire series.

In addition to the efficiency of up to 91.5%, the design of the metal mesh housing and full glue filling enhances the heat dissipation ability, allowing the LPV-100 to operate in the temperature range of -30 °C to +50 °C without a fan. Making it easy for the terminal system to meet international energy requirements. LPV-100 have complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The LPV-100 series provide a cost-effective solution for various industrial applications.

Principle diagram



LPV-100 SERIES

WATERPROOF GLUE FILLING SWITCH POWER SUPPLY



Technical parameter

Type	Technical indicators		
Output	Dc voltage	12V	24V
	Rated current	8.3A	4.17A
	Rated power	100W	100W
	Ripple and noise ①	<120mV	
	Voltage precision	±5%	
	Load adjustment rate	±2%	
	Linear adjustment rate	±1%	
	Starting and rising time	2000ms、25ms、50ms: 230VAC	
Input	Voltage range/frequency	200-240VAC 47Hz~63Hz	
	Efficiency (typical) ②	>85%	>88%
	Working current	0.9A/240VAC	
	Impulse current	220VAC: 60A	
Protection characteristics	Overload protection	105%-135% protection type: burping mode, automatic return to normal after removing abnormal conditions	
	Overvoltage protection	115%-145% protection type: close the output, restart and automatically return to normal	
	Short circuit protection	+VO drops to undervoltage point to close output	
Environment	Working temperature and humidity	-30℃~-+50℃; 20%~90RH	
	Storage tenperature and humidity	-40℃~-+85℃; 10%~95RH	
Security	Withstand voltage	Input output :3KVAC 1 minute	
	Leakage current	Input shell: 240VAC <2.5mA	
	Isolation resistance	Input - output and input - shell, output - shell: 500 VDC / 100 MΩ	
Other	Size	165*53*31mm(L*W*H)	
	Net weight/gross weight	460g/490g	
Remarks	①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at 20MHz bandwidth. ② The efficiency is tested at the input voltage of 230VAC, rated load and ambient temperature of 25 °C. Precision: including setting error, linear adjustment rate and load adjustment rate. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. The starting time is measured under the cold start state. Fast and frequent startup and shutdown may increase the starting time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.		

LPV-150/200

WATERPROOF GLUE FILLING SWITCH
POWER SUPPLY



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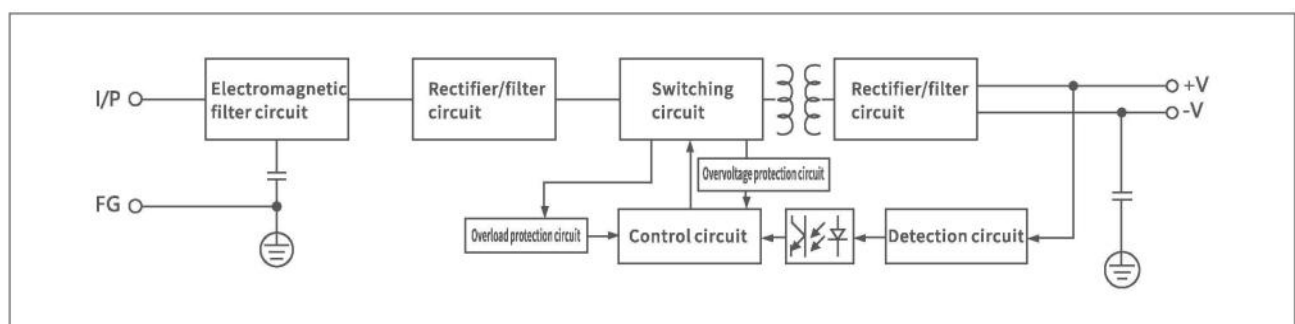


Product overview

The LPV-150/200 series is a 150/200W single group output closed type power supply that uses 200 to 240VAC full range AC input to provide 12V、24V output for the entire series.

In addition to the efficiency of up to 91.5%, the design of the metal mesh housing and full glue filling enhances the heat dissipation ability, allowing the LPV-150/200 to operate in the temperature range of - 30 °C to +50 °C without a fan. Making it easy for the terminal system to meet international energy requirements. LPV-150/200 have complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The LPV-150/200 series provide a cost-effective solution for various industrial applications.

Principle diagram



LPV-150/200 SERIES

WATERPROOF GLUE FILLING SWITCH POWER SUPPLY



Technical parameter

Type		Technical indicators	
Output	Dc voltage	12V	24V
	Ripple and noise ①	<120mV	<200mV
	Voltage accuracy	±5%	
	Linear adjustment rate	<2%	
	Load adjustment rate	±1%	
	Start up time	2000ms、25ms、50ms: 230VAC	
Input	Voltage range/frequency	200-240VAC 47Hz~63Hz	
	Efficiency (typical) ②	>87%	>88%
	Impulse current	220VAC: 60A	
	Leakage current	<2.5mA 240VAC	
Protection characteristics	Overload protection	105%-135% protection type: burping mode, automatic return to normal after removing abnormal conditions	
	Overvoltage protection	115%-145% protection type: close the output, restart and automatically return to normal	
	Short circuit protection	+VO drops to undervoltage point to close output	
Environment	Operating temperature、humidity	-30℃~+50℃; 20%~90RH	
	Storage temperature、humidity	-40℃~+85℃; 10%~95RH	
Security	Withstand voltage	Input-output: 3KVAC duration: 1 minute	
	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 mΩ	
Other	Size	186*60*36mm(L*W*H)	
	Net weight/gross weight	670g/710g	
Remarks	①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at 20MHz bandwidth. ② The efficiency is tested at the input voltage of 230VAC, rated load and ambient temperature of 25 °C. Precision: including setting error, linear adjustment rate and load adjustment rate. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. The starting time is measured under the cold start state. Fast and frequent startup and shutdown may increase the starting time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.		

Type	LPV-150	
DC voltage	12V	24V
Rated current	12.5A	6.25A
Rated power	150W	150W
Operating current	1.79A/240VAC	

Type	LPV-200	
DC voltage	12V	24V
Rated current	16A	8A
Rated power	200W	200W
Operating current	1.79A/240VAC	