



■ Features :

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.7)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.11)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

User's Manual



■ GTIN CODE

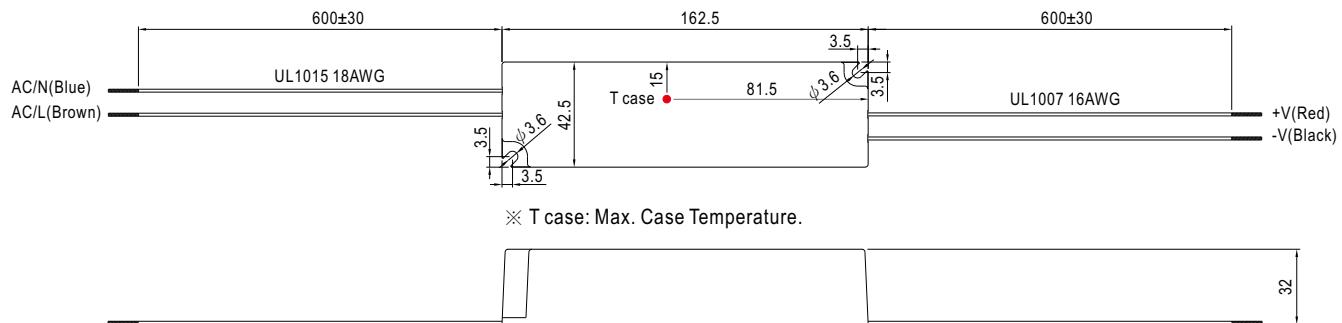
 MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

 IS15885 LPS (except for 5V) IP67  (Note 12)  (for 48V only)  (except for 5V,48V)    

SPECIFICATION

MODEL	LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48					
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V					
	RATED CURRENT	8A	5A	4A	2.5A	1.67A					
	CURRENT RANGE	0 ~ 8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.67A					
	RATED POWER	40W	60W	60W	60W	60W					
	ripple & noise (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p					
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%								
	LINE REGULATION	±1.0%									
	LOAD REGULATION	±6.0%	±2.0%								
INPUT	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load(for 5~36V) ; 500ms, 30ms / 230VAC	500ms, 30ms / 115VAC at full load(for 48V)							
	HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load								
PROTECTION	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%					
	AC CURRENT (Typ.)	1.2A/115VAC	1A/230VAC								
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=525μs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	0.25mA / 240VAC									
ENVIRONMENT	OVER LOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V					
		Protection type : Shut down o/p voltage, re-power on to recover									
SAFETY & EMC	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
OTHERS	SAFETY STANDARDS	UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 207-M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5,LPV-60-48), BIS IS15885(Note 12), EAC TP TC 004, IP67, IEC62368-1 , BS EN/EN62368-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A, BS EN/EN61000-3-3, EAC TP TC 020									
NOTE	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020									
	MTBF	5188.4K hrs min. Telcordia SR-332 (Bellcore) ; 732.1Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	162.5*42.5*32mm (L*W*H)									
NOTE	PACKING	0.4Kg; 32pcs/13.8Kg/0.66CUFT									
	1.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.									
	2.	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.									
	3.	Tolerance : includes set up tolerance, line regulation and load regulation.									
	4.	Derating may be needed under low input voltage. Please check the static characteristics for more details.									
	5.	The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)									
	6.	Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.									
	7.	Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.									
	8.	The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).									
	9.	Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.									
	10.	For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf									
	11.	This product is not intended for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.)									
	12.	Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information.									
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										

■ Mechanical Specification

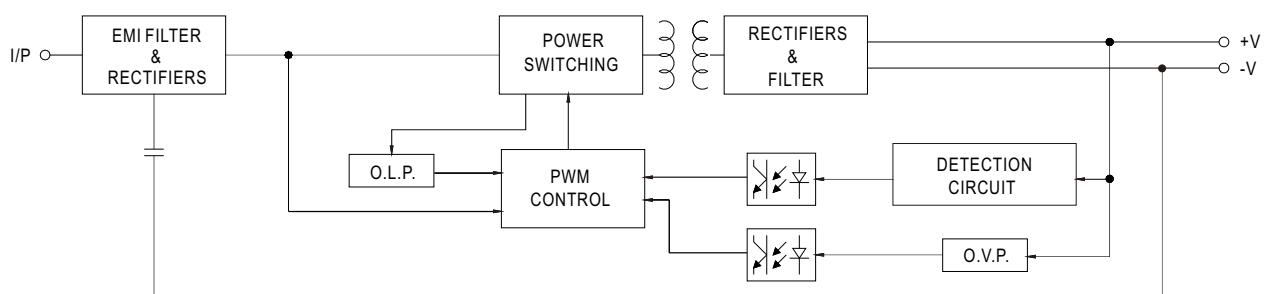
 Case No. 976A Unit:mm Tolerance: ± 1


■ Recommend Mounting Direction

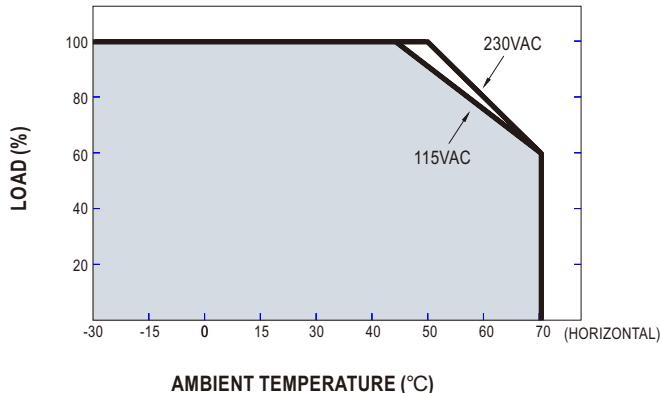


■ Block Diagram

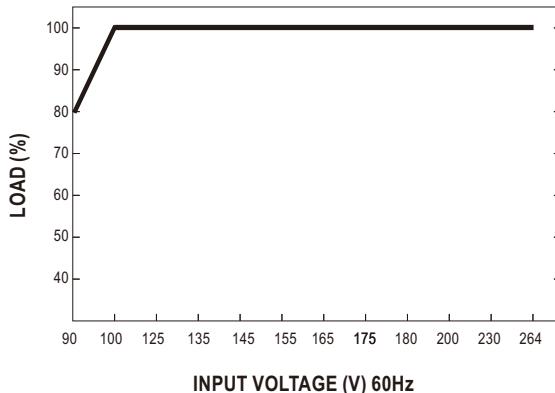
fosc : 65KHz



■ Derating Curve



■ Static Characteristics





■ Features :

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.7)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.11)
- 2 years warranty

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IS15885

IP67

Note 12

cUL us

IEC

CE

CB

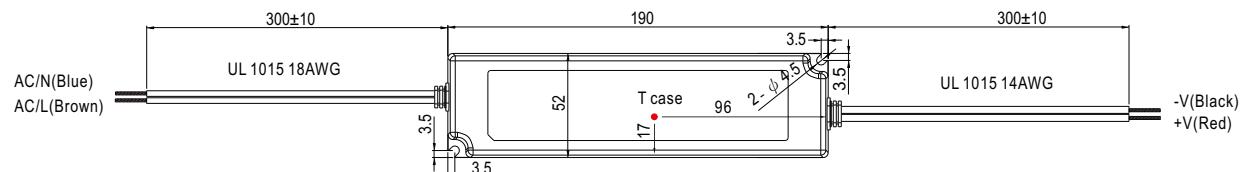
UK

CA

SPECIFICATION

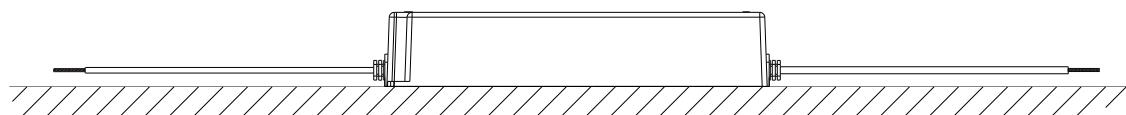
MODEL	LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-36	LPV-100-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V
	RATED CURRENT	12A	8.5A	6.7A	4.2A	2.8A
	CURRENT RANGE	0 ~ 12A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 2.8A
	RATED POWER	60W	102W	100.5W	100.8W	100.8W
	ripple & noise (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%			
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±6.0%	±2.0%			
	SETUP, RISE TIME Note.6	2000ms, 25ms / 230VAC	2000ms, 25ms / 115VAC			
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC	14ms/115VAC at full load			
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%
	AC CURRENT	2.2A/115VAC	1.2A/230VAC			
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=700μs measured at 50% Ipeak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC				
PROTECTION	LEAKAGE CURRENT	0.25mA / 240VAC				
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No 250.13-12, UL879, CSA C22.2 No.207-M89, BIS IS15885(Note12), EAC TP TC 004, IP67, IEC62368-1, BS EN/EN62368-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A(≤80% load), BS EN/EN61000-3-3, EAC TP TC 020				
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN55035, light industry level, EAC TP TC 020				
	MTBF	4497.1K hrs min. Telcordia SR-332 (Bellcore) ; 681.6Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	190*52*37mm (L*W*H)				
NOTE	PACKING	0.61Kg;20pcs/13.2Kg/0.57CUFT				
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. Suitable for indoor use or outdoor use without direct sunlight exposure. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information. 10. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 11. This product is not intended for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.) 12. R-41027766 (GZ factory) only for 12V,24V / R-62002178 (ID factory) for 5V~48V ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

■ Mechanical Specification

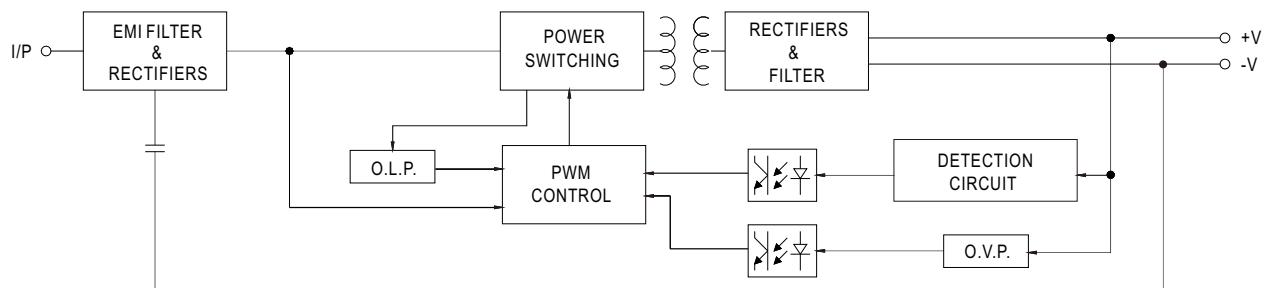
 Case No. LPC-100A Unit:mm Tolerance: ± 1


※ T case: Max. Case Temperature.

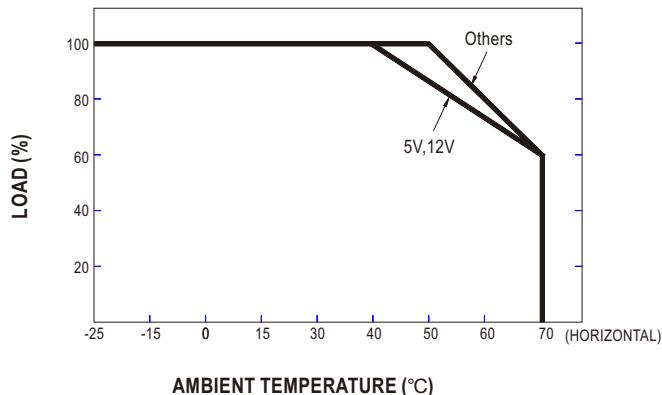
■ Recommend Mounting Direction



■ Block Diagram



■ Derating Curve



■ Static Characteristics

