



ARTIGO (REFERÊNCIA) <i>Producto</i>   <i>Product</i>	GRULPV-60-24
SÉRIE <i>Serie</i>   <i>Series</i>	LPV
TIPO <i>Tipo</i>   <i>Type</i>	Transformador <i>Transformador</i>   <i>Transformer</i>
TECNOLOGIA <i>Tecnología</i>   <i>Technology</i>	Tensão constante AC/DC 24V <i>Tensión constante</i>   <i>Constant voltage</i>
CÓDIGO DE BARRAS <i>Código de barras</i>   <i>Barcode</i>	--
COR <i>Color</i>   <i>Colour</i>	--
MATERIAL <i>Material</i>   <i>Material</i>	Plástico <i>Plástico</i>   <i>Plastic</i>
DIÂMETRO (D.) <i>Diámetro</i>   <i>Diameter</i>	--
ALTURA (A.) <i>Altura</i>   <i>Height</i>	3,2cm
COMPRIMENTO (C.) <i>Longitud</i>   <i>Lenght</i>	16,25cm
LARGURA (L.) <i>Ancho</i>   <i>Width</i>	4,25cm
PESO <i>Peso</i>   <i>Weight</i>	390g



## INFORMAÇÃO GERAL

*Información General* | *General Information*

Índice de proteção <i>Índice de Protección</i>   <i>Protection Index</i>	IP67 <i>Tipo</i>
Classe de proteção <i>Clase de protección</i>   <i>Protection class</i>	Classe II
Fator de potência <i>Factor de potencia</i>   <i>Power factor</i>	--
Número de LED <i>Número de LED</i>   <i>LED number</i>	--
Secção de entrada <i>Sección de entrada</i>   <i>Input section</i>	--
Secção de saída <i>Sección de salida</i>   <i>Output section</i>	--

## INFORMAÇÃO TÉCNICA

*Información técnica* | *Technical information*

Tensão de entrada <i>Voltaje de entrada</i>   <i>Input voltage</i>	100-240Vac
Frequência <i>Frecuencia</i>   <i>Frequency</i>	50/60Hz
Potência <i>Potencia</i>   <i>Power</i>	60W
Corrente de entrada (máx) <i>Corriente de entrada (máx)</i>   <i>Input current (max)</i>	1,2A
Tensão de saída <i>Voltaje de salida</i>   <i>Output voltage</i>	24Vdc
Corrente de saída <i>Corriente de salida</i>   <i>Output current</i>	2,5A
Eficiência (%) <i>Eficiencia</i>   <i>Efficiency</i>	86%
Temperatura ambiente (Ta) <i>Temperatura ambiente</i>   <i>Ambient temperature</i>	-30..+70°C
Temperatura Invólucro (Tc) <i>Temperatura de la carcasa</i>   <i>Case Temperature</i>	--
Isolação <i>Aislamiento</i>   <i>Insulation</i>	--

## PROTEÇÕES

*Protecciones* | *Protections*

Proteção curto circuito (SCP) <i>Protección contra cortocircuitos</i>   <i>Short circuit protection</i>	Sim <i>Sí</i>   <i>Yes</i>
Proteção sobrecarga (OPP) <i>Protección de sobrecarga</i>   <i>Overload protection</i>	Sim <i>Sí</i>   <i>Yes</i>
Proteção sobreaquecimento (OTP) <i>Protección contra sobretemperatura</i>   <i>Over temperature protection</i>	Sim <i>Sí</i>   <i>Yes</i>
Proteção sobretensões (OVP) <i>Protección contra sobretensiones</i>   <i>Overvoltage protection</i>	--
Proteção de sobrecarga (L-N) <i>Protección de sobrecarga</i>   <i>Surge protection</i>	--
Tremulação <i>Parpadeo</i>   <i>Flicker</i>	--
Potência sem carga <i>Energia sin carga</i>   <i>No-load power</i>	--



- 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



■ GTIN CODE

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

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	48V
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A
	CURRENT RANGE	0 ~ 8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.67A	0 ~ 1.25A
	RATED POWER	40W	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-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	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load(for 5~36V) ; 500ms, 30ms / 230VAC		500ms, 30ms / 230VAC	500ms, 30ms / 115VAC at full load(for 48V)	
HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	76%	83%	83%	86%	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					
PROTECTION	LEAKAGE CURRENT	0.25mA / 240VAC					
	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	55.2 ~ 64.8V
ENVIRONMENT	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					
SAFETY & EMC	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					
	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					
OTHERS	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)					
	PACKING	0.4Kg; 32pcs/13.8Kg/0.63CUFT					

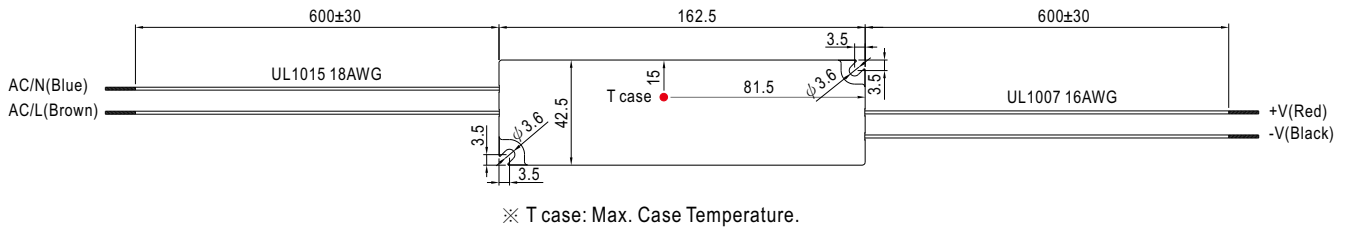
NOTE

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.
- Tolerance : includes set up tolerance, line regulation and load regulation.
- Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 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](https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf))
- 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.
- Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
- 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).
- Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.
- 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](https://www.meanwell.com/Upload/PDF/LED_EN.pdf)
- This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)
- 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

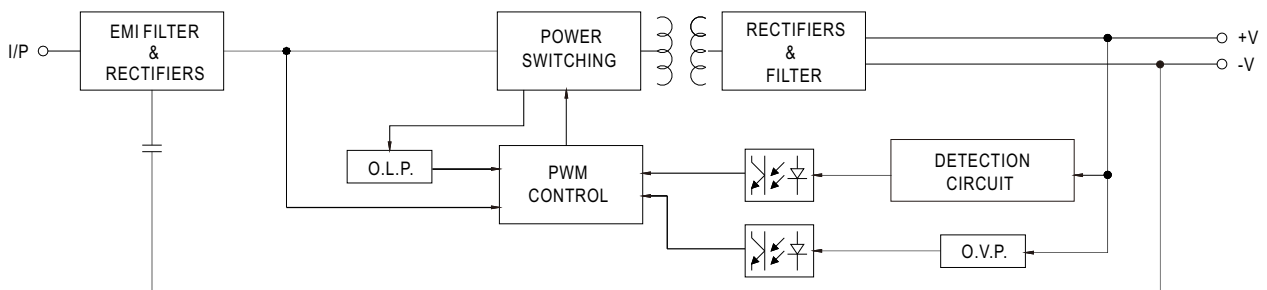


**Recommend Mounting Direction**

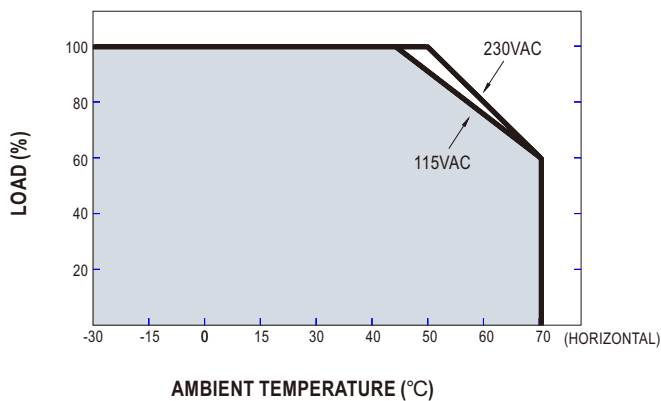


**Block Diagram**

fosc : 65KHz



**Derating Curve**



**Static Characteristics**

