Light Soy™

SPE-101
Light Soy Pendant

Contents

1. Safety Warnings

For installation by a licensed electrician only. Read all instructions before installing.
You must use the included DC power supply.
Not suitable for use with dimming circuits.
Turn off power at the main switch before installing or adjusting the light.
Do not disassemble the light fitting or power supply.
Do not over-tighten the red cap.

2. Installation Requirements

The mounting point must be able to support at least 2 times the weight of the fitting.
Indoor use only.
Do not install near air vents or drafts.
Do not expose to water or dampness.
Keep appropriate ventilation around the power supply unit and ensure ambient temperature is within the operating range specified by the manufacturer.

This lamp is not suitable for use with dimming circuits.

3. Installation using the Heliograf canopy

You will need

2x screws, suitable for the mounting surface.

1. Ensure shade [O] is securely attached to cap [N]. Do not over-tighten.

2. Unscrew cable grip [K] from threaded rod [H].

3. Thread cable [M] through cable grip [K], then canopy [J], then threaded rod [H].

4. Determine final height of lamp. Tighten a cable tie to cable above top M10 nut [D] at desired position.

5. Use connectors [B] to connect wires to the power supply module [A]. Refer to the power supply module information sheet. Ensure that correct connections have been made, and all wires are securely fitted with no wires exposed.

6. Fit power supply module [A] in ceiling. Ensure safe clearance values are maintained.

7. Attach mounting bracket [F] to ceiling using screws suitable for mounting surface.

8. Slide canopy [J] up into position. Tighten cable grip [K] on threaded rod until canopy is secure against ceiling. Tighten grub screw [L] in cable grip [K]. Do not over tighten.

To adjust brightness: Touch and hold the button on the cap to adjust brightness. Release finger to set desired level. The light will save the last used brightness setting.

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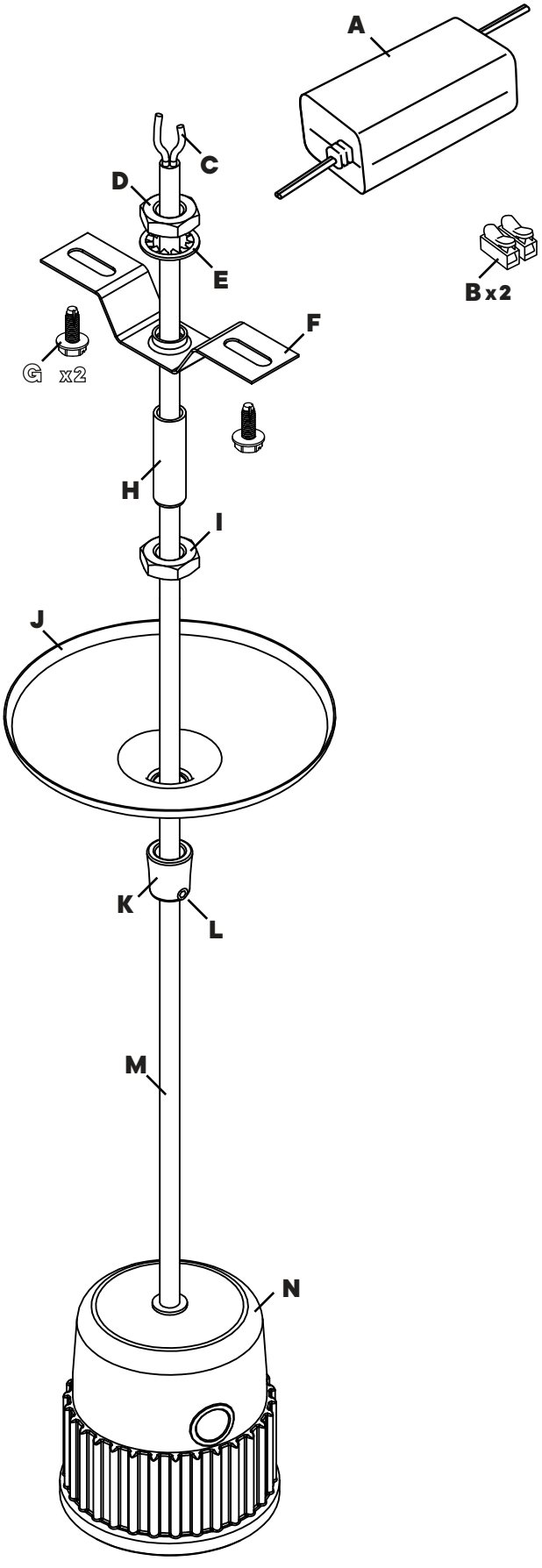
4. Heliograf Canopy Diagram



- **A** Power Supply Module
- **B** Connectors x2
- **C** Wires
- **D** M10 Nut
- **E** M10 star/lock washer
- **F** Mounting bracket
- **G** Screws x 2 (not included)
- **H** M10 hollow threaded rod
- **I** M10 Nut
- **J** Canopy
- **K** Cable grip
- **L** Grub Screw for cable grip
- **M** Cable
- **N** Cap

heliograf

5. Installation using a third-party canopy

1. Follow all instructions provided with third-party canopy. Ensure canopy meets all safety requirements for weight, ventilation and local regulations.

2. Use terminal blocks to connect lamp to the power supply module, and power supply module to the mains power. Refer to the power supply module information sheet. Ensure that correct connections have been made, and all wires are securely fitted with no wires exposed.

To adjust brightness: Touch and hold the button on the cap to adjust brightness. Release finger to set desired level. The light will save the last used brightness setting.

6. Selecting a third-party canopy

If installing in a location where the power supply cannot be concealed in the ceiling, you need a canopy that contains the power supply.

Refer to the power supply information sheet to ensure the supply fits.

7. Recommended third-party canopies

CableCup Original 158mm

12W Single Output Switching Power Supply

APV-12 series

Features :

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over load / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- Class Ⅱ power unit, no FG
- Class 2 power unit
- Pass LPS
- IP42 design
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

SPECIFICATION

SELV LPS IP42 IS 15885(Part 2/Sec13) R-41027766 (except for 15V) (optional)

MODEL		APV-12-5	APV-12-12	APV-12-15	APV-12-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	2A	1A	0.8A	0.5A
	CURRENT RANGE	0 ~ 2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.5A
	RATED POWER	10W	12W	12W	12W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%			
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME Note.6	1500ms, 30ms / 230VAC	1500ms,30ms / 115VAC at full load		
	HOLD UP TIME (Typ.)	20ms/230VAC	15ms/115VAC at full load		
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	76%	82%	82%	84%
	AC CURRENT	0.2A/230VAC	0.35A/115VAC		
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120μs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION	OVER LOAD	Above 105% rated output power			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	27.6 ~ 32.4V
		Protection type : Shut off o/p voltage, clamping by zener diode			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750,CSA C22.2 No.250.0-08, ENEC EN61347-1,EN61347-2-13,EN62384 Independent,BIS IS15885(except for 15V), EAC TP TC 004,IP42 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃/ 70% RH			
	EMC EMISSION	Compliance to EN55032,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN55024,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 020			
OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	77*40*29(L*W*H)			
	PACKING	0.08Kg; 120pcs/11.8Kg/1.06CUFT			

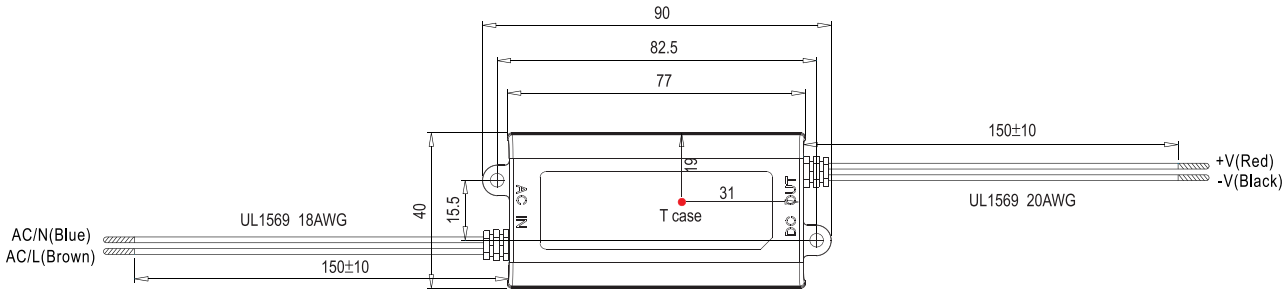
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.
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. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.
8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.
9. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
10. Products sourced from the Americas regions may not have the ENEC/BIS/CCC logo. Please contact your MEAN WELL sales for more information.
11. 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

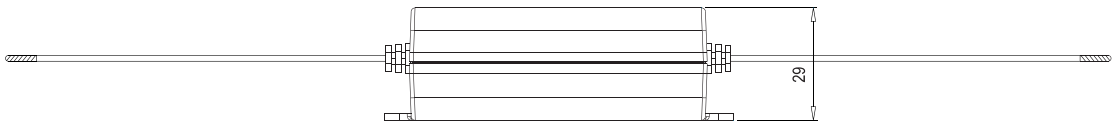
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ Mechanical Specification

Unit:mm

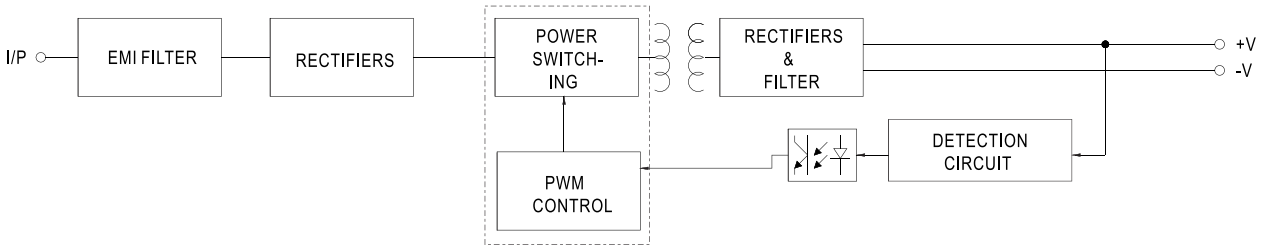


※ T case: Max. Case Temperature

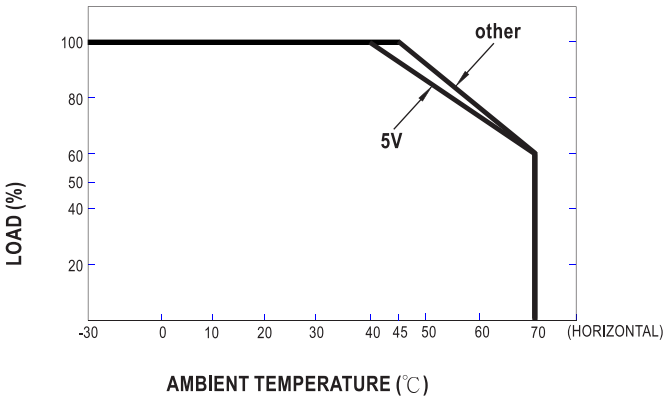


■ Block Diagram

fosc : 67KHz



■ Derating Curve



■ Static Characteristics