

MEAN WELL LPC-20 Series 20W Single Output Switching Power Supply Owner's Manual

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MEAN WELL LPC-20 Series 20W Single Output Switching Power Supply



Product Specifications

• Model: LPC-20-350, LPC-20-700

• Output: 350mA, 700mA

• DC Voltage Range: 9 ~ 48V, 9 ~ 30V

• Rated Power: 16.8W, 21W

• Ripple & Noise (max.): 200mVp-p

• Efficiency (Typ.): 83%

• Working Temperature: -30~ +70 (Refer to Derating Curve)

• Working Humidity: 20 ~ 90% RH non-condensing

• Safety Standards: UL879, UL1310, CSA C22.2 No. 207-M89, CAN/CSA C22.2 No. 223-M91, IEC/BS EN/EN

62368-1, EAC TP TC 004, IP67 approved

• **Dimension:** 118*35*26mm (L*W*H)

Product Usage Instructions

Installation

- 1. Ensure the input power matches the voltage range specified.
- 2. Connect the output wires to your device following the correct polarity.
- 3. Mount the power supply in the recommended direction for optimal performance.

Safety Precautions

- Do not operate the power supply in extreme temperatures outside the specified range.
- Avoid exposing the power supply to high humidity levels.
- Ensure proper ventilation around the power supply unit.

Maintenance

- Regularly check for any signs of damage or abnormal operation.
- Keep the power supply unit clean from dust and debris.
- If experiencing issues, consult a qualified technician for assistance.

Frequently Asked Questions (FAQ)

Q: What is the maximum number of power supplies that can be connected to a 16A circuit breaker?

A: The LPC-20 series allows for 8 units with a circuit breaker of type B or 14 units with a circuit breaker of type C at 230VAC.

Q: What safety standards are met by the LPC-20 series?

A: The LPC-20 series meets UL879, UL1310, CSA C22.2 No. 207-M89, CAN/CSA C22.2 No. 223-M91, IEC/BS EN/EN 62368-1, EAC TP TC 004, and is IP67 approved.

20W Single Output Switching Power Supply

GTIN CODE

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

Features

- · Constant current design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over voltage
- · Cooling by free air convection
- · Small and compact size
- 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.10)
- 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty













SPECIFICATION

MODEL		LPC-20-350	LPC-20-700
	RATED CUR RENT	350mA	700mA
	DC VOLTAGE RANGE	9 ~ 48V	9 ~ 30V
	RATED POW ER	16.8W	21W

OUT	RIPPLE & NO ISE (max.) Note.2		200mVp-p	200mVp-p	
	VOLTAGE TO LERANCE N ote.3		±5.0%		
	CURRENT A CCURACY		±5.0%		
	LINE REGUL ATION		±1.0%		
	LOAD REGU LATION		±2.0%		
	SETUP, RISE TI ME	N ot e. 6	500ms, 250ms / 230VAC 500ms, 250ms / 115VAC at full load		
	HOLD UP TI ME (Typ.)		50ms/230VAC 16ms/115VAC at full load		
	VOLTAG E RANG E	N ot e. 4	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE		47 ~ 63Hz		
	EFFICIENCY (Typ.)		83%		
INP	AC CURREN T (Typ.)		0.55A/115VAC 0.35A/230VAC		
UT	INRUSH C		COLD START 70A(twidth=220µs measured at 50% Ipeak) at 230VAC		
	MAX. No. of PSUs on 16A CIRCUIT BR EAKER		8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC		
	LEAKAGE URRENT	С	0.25mA / 240VAC		
PRO	OVER VOLTA GE		50.4 ~ 60V	31.5 ~ 40.5V	
TEC TIO N			Protection type : Shut off o/p voltage, clamping by zener diode		
	WORKING EMP.	à T	-30~ +70°C (Refer to "Derating Curve")		
	WORKING UMIDITY	WORKING H UMIDITY 20 ~ 90% RH non-condensing			
			1		

IRO NM ENT	EMP., HUMID -40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEF FICIENT	±0.03%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAF ETY & E MC	SAFETY STA NDARDS	UL879, UL1310 , CSA C22.2 No. 207-M89(except for LPC-20-350), CAN/CSA C22.2 No . 223-M91(except for LPC-20-350),			
		IEC/BS EN/EN 62368-1, EAC TP TC 004, IP67 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
	ISOLATION R ESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH			
	EMC EMISSI ON	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 IMMUNI TY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020			
	MTBF	5708.9K hrs min. Telcordia SR-332 (Bellcore) ; 700.1K hrs min.	MIL-HDBK-217F (25°C)		
	DIMENSION	118*35*26mm (L*W*H)			
	PACKING	0.22Kg; 60pcs/14.2Kg/0.72CUFT			

OTH ERS

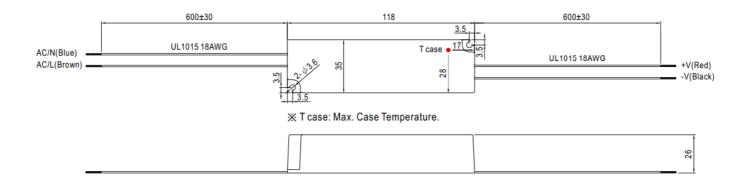
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambi ent temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, 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 equipm ent. 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)

NOT E

- 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to in crease 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 m odels for operating altitude higher than 2000m(6500ft).
- 9. 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
- 10. 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.)
- * Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

20W Single Output Switching Power Supply

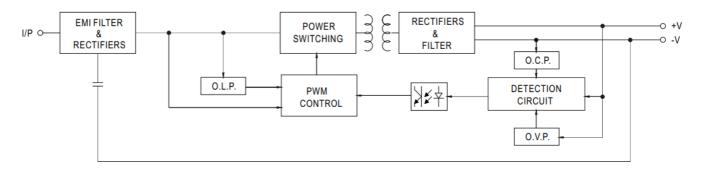
Mechanical Specification



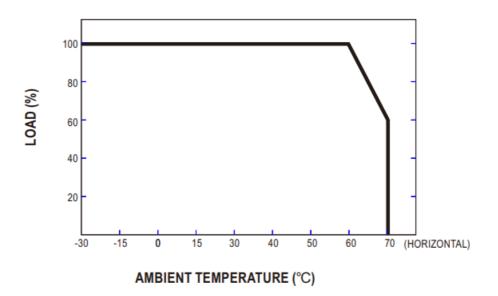
Recommend Mounting Direction



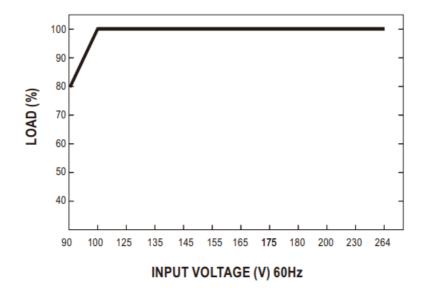
fosc: 60KHz



Derating Curve



Static Characteristics



File Name:LPC-20-SPEC 2024-08-01

Documents / Resources



MEAN WELL LPC-20 Series 20W Single Output Switching Power Supply [pdf] Owner's Man ual

LPC-20 Series, LPC-20 Series 20W Single Output Switching Power Supply, 20W Single Output Switching Power Supply, Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

References

- ▲ TÜV Rheinland Home | US | TÜV Rheinland
- User Manual

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