



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



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.

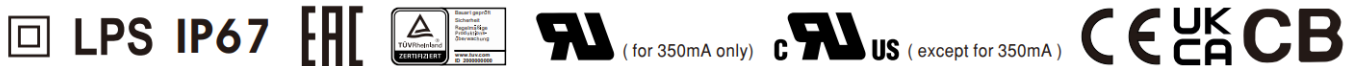
20W Single Output Switching Power Supply

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



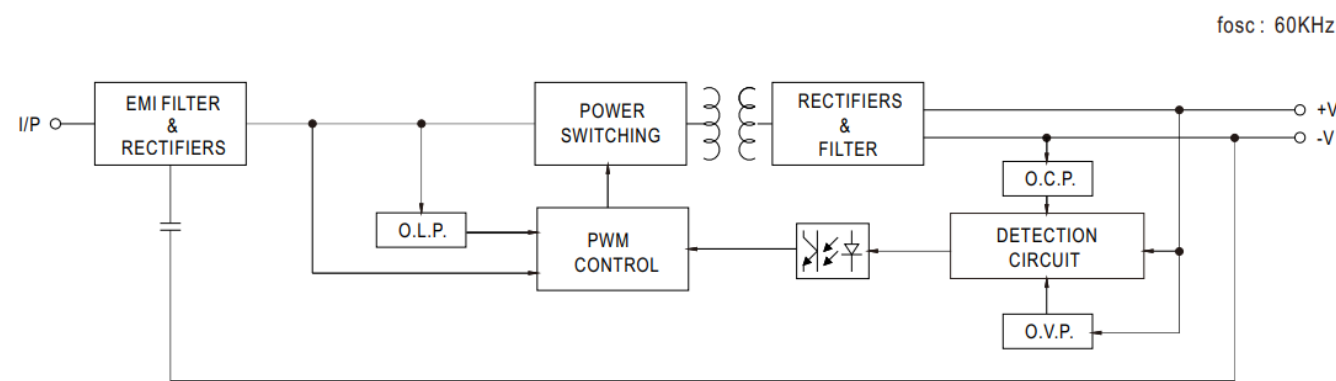
SPECIFICATION

MODEL		LPC-20-350	LPC-20-700
	RATED CURRENT	350mA	700mA
	DC VOLTAGE RANGE	9 ~ 48V	9 ~ 30V
	RATED POWER	16.8W	21W

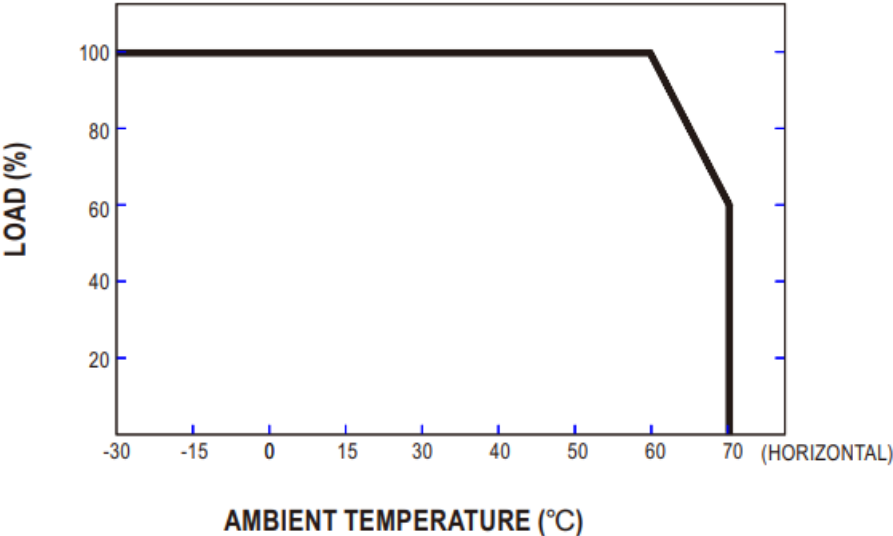
OUT PUT	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3		±5.0%	
	CURRENT ACCURACY		±5.0%	
	LINE REGULATION		±1.0%	
	LOAD REGULATION		±2.0%	
	SETUP, RISE TIME	Note.6	500ms, 250ms / 230VAC 500ms, 250ms / 115VAC at full load	
	HOLD UP TIME (Typ.)		50ms/230VAC	16ms/115VAC at full load
INP UT	VOLTAGE RANGE	Note.4	90 ~ 264VAC	127 ~ 370VDC
	FREQUENCY RANGE		47 ~ 63Hz	
	EFFICIENCY (Typ.)		83%	
	AC CURRENT (Typ.)		0.55A/115VAC 0.35A/230VAC	
	INRUSH CURRENT(Typ.)		COLD START 70A(twidth=220µs measured at 50% Ipeak) at 230VAC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT		0.25mA / 240VAC	
PROTECTION	OVER VOLTAGE		50.4 ~ 60V	31.5 ~ 40.5V
			Protection type : Shut off o/p voltage, clamping by zener diode	
	WORKING TEMP.		-30~ +70°C (Refer to “Derating Curve”)	
	WORKING HUMIDITY		20 ~ 90% RH non-condensing	

ENVIRONMENT	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, 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 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	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	

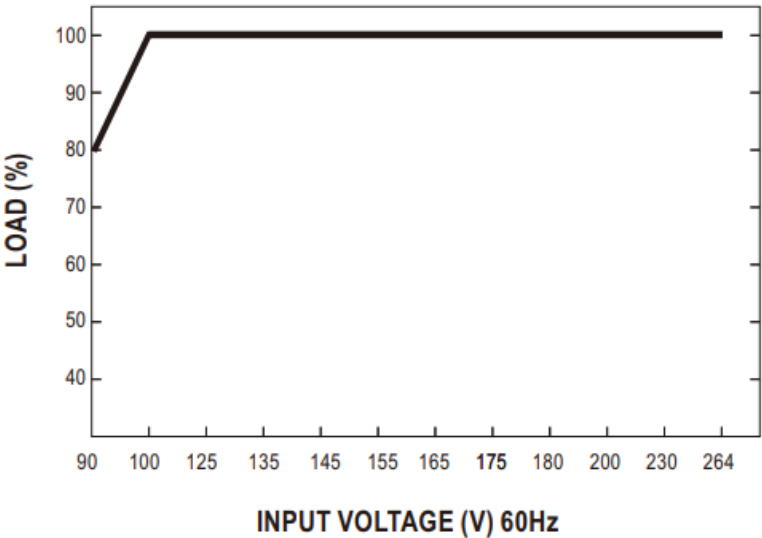
Block Diagram



Derating Curve



Static Characteristics



Documents / Resources



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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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