





























■ Features

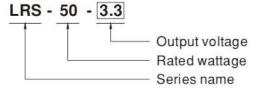
- · Universal AC input / Full range
- · Withstand 300VAC surge input for 5 second
- No load power consumption<0.3W
- · Miniature size and 1U low profile
- High operating temperature up to 70°C
- · Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compliance to IEC/BS EN/EN 60335-1(PD3) and IEC/BS EN/EN61558-1, -2-16 for household appliances
- · Operating altitude up to 5000 meters (Note.8)
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- · LED indicator for power on
- · Over voltage category III
- · 100% full load burn-in test
- · 3 years warranty

Description

LRS-50 series is a 50W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input, the entire series provides an output voltage line of 3.3V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-50 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.2W), it allows the end system to easily meet the worldwide energy requirement. LRS-50 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV BS EN/EN62368-1, BS EN/EN60335-1,BS EN/EN61558-1/-2-16, UL62368-1 and GB4943. LRS-50 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · Household appliances

GTIN CODE

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SPECIFICATION

MODEL		LRS-50-3.3	LRS-50-5	LRS-50-12	LRS-50-15	LRS-50-24	LRS-50-36	LRS-50-48				
	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V				
	RATED CURRENT	10A	10A	4.2A	3.4A	2.2A	1.45A	1.1A				
	CURRENT RANGE	0 ~ 10A	0~10A	0 ~ 4.2A	0 ~ 3.4A	0~2.2A	0 ~ 1.45A	0 ~ 1.1A				
	RATED POWER	33W	50W	50.4W	51W	52.8W	52.2W	52.8W				
OUTPUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p				
	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8\				
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
:	LOAD REGULATION Note.5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	SETUP, RISE TIME	000ms, 30ms/230VAC 2000ms,30ms/115VAC at full load										
1	HOLD UP TIME (Typ.)	30ms/230VAC										
	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 373VI	DC								
	FREQUENCY RANGE	47 ~ 63Hz										
	EFFICIENCY (Typ.)	80%	83%	86%	88%	88%	89%	90%				
NPUT	AC CURRENT (Typ.)	0.95A/115VAC 0.56A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 45A/230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC										
	OVER LOAD	110 ~ 150% rated output power										
		Protection type : Hiccup mode, recovers automatically after fault condition is removed										
ROTECTION	OVER VOLTAGE	3.8 ~ 4.45V	5.9~ 7.3V	13.8 ~ 17.2V	18.75 ~ 25.75	/ 28.8 ~ 36.6V	41.4 ~ 51.6V	55.2 ~ 67.8				
		Protection type	: Shut down o/p	voltage, re-power	er on to recover		(. L.)					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")										
:	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing										
ENVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)										
3	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes										
	OVER VOLTAGE CATEGORY	III; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 metro.										
	SAFETY STANDARDS	UL62368-1, TU BSMI CNS 155	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, CCC GB4943.1, BSMI CNS15598-1, EAC TP TC 004, AS/NZS 60950.1(by CB), KC K60950-1(for LRS-50-12/24 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005(except for LRS-50-48) approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	, O/P-FG:100M	Ohms / 500VDC	/ 25°C / 70% RH							
(Note 9)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3, GB/T 9254, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-50-12/24 only)										
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, EAC TP TC 020,KC KN32,KN35(for LRS-50-12/24 only)										
	MTBF	3149.8K hrs m	in. Telcordia S	SR-332 (Bellcore)); 561.6Khrs mi	in. MIL-HDBK-	-217F (25°C)					
OTHERS	DIMENSION	99*82*30mm (L*W*H)										
	PACKING	0.23Kg; 60pcs/14.8Kg/0.88CUFT										
NOTE		0.23Kg; 60pcs/14.8Kg/0.88CUFT cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.										

NOTE

- 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. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- 7. 3.3V,5V when the load factor 0~50%, the switching power less is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.
- 8. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
- 9. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx































- · Universal AC input / Full range
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · Miniature size and 1U low profile
- Compliance to IEC/BS EN/EN 60335-1(PD3) and IEC/BS EN/EN61558-1, 2-16 for household appliances
- · Operating altitude up to 5000 meters (Note.7)
- · Withstand 5G vibration test
- LED indicator for power on
- · No load power consumption<0.3W
- · Over voltage category III
- · 100% full load burn-in test
- High operating temperature up to 70°C
- · High efficiency, long life and high reliability
- · 3 years warranty

Applications

- Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances

■ GTIN CODE

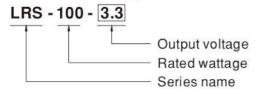
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Description

LRS-100 series is a 100W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input, the entire series provides an output voltage line of 3.3V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 91%, the design of metallic mesh case enhances the heat dissipation of LRS-100 that the whole series operates from -30 $^{\circ}$ C through 70 $^{\circ}$ C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.3W), it allows the end system to easily meet the worldwide energy requirement. LRS-100 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV BS EN/EN2368-1, BS EN/EN60335-1,BS EN/EN61558-1/-2-16, UL62368-1 and GB4943. LRS-100 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding





SPECIFICATION

MODEL		LRS-100-3.3	LRS-100-5	LRS-100-12	LRS-100-15	LRS-100-24	LRS-100-36	LRS-100-48					
	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V					
	RATED CURRENT	20A	18A	8.5A	7A	4.5A	2.8A	2.3A					
	CURRENT RANGE	0~20A	0~18A	0 ~ 8.5A	0~7A	0~4.5A	0 ~ 2.8A	0 ~ 2.3A					
	RATED POWER	66W	90W	102W	105W	108W	100.8W	110.4W					
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p					
DUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V					
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%					
	LINE REGULATION Note.4		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	LOAD REGULATION Note.5		±1.0%	±0.5%	±0.5%	±0.5%	士0.5%	±0.5%					
	SETUP, RISE TIME	500ms, 30ms/2	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load										
	HOLD UP TIME (Typ.)	55ms/230VAC 10ms/115VAC at full load											
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	85 ~ 264VAC 120 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) 47 ~ 63Hz											
	EFFICIENCY (Typ.)	84.5%	86%	88%	88.5%	90%	90.5%	91%					
NPUT	AC CURRENT (Typ.)		15.5/8	1553	00.376	90 70	30.376	31/0					
	INRUSH CURRENT (Typ.)	1.9A/115VAC 1.2A/230VAC											
	LEAKAGE CURRENT	COLD START 50A/230VAC											
	LEARAGE CURRENT	<0.75mA / 240VAC 110 ~ 150% rated output power											
	OVER LOAD				L' - 11 - 61 - 6 - 11								
PROTECTION				recovers automa		1	The second second						
KOTEOTION	OVER VOLTAGE	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V		V 28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8\					
		Protection type: Shut down o/p voltage, re-power on to recover											
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
NVIRONMENT	STORAGE TEMP., HUMIDITY	7											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes											
	OVER VOLTAGE CATEGORY	III; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters											
	SAFETY STANDARDS	UL 62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, CCC GB4943.1, BSMI CNS15598-1, EAC TP TC 004, S/NZS62368.1 (by CB), KC K60950-1 (for LRS-100-12/24 only), BIS IS13252 (Part1): 2010/IEC 60950-1: 2005 approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC											
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
(Note 8)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3, GB/T 9254, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-100-12/24 only)											
	EMCIMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, EAC TP TC 020,KC KN32,KN35(for LRS-100-12/24 only)											
	MTBF	3348.9K hrs mi	n. Telcordia	SR-332 (Bellcore); 677.4Khrs mi	n. MIL-HDBK-	217F (25°C)						
OTHERS	DIMENSION	129*97*30mm	(L*W*H)										
	PACKING	0.34Kg; 40pcs/14.6Kg/0.92CUFT											
NOTE	Ripple & noise are measured includes set upon the control of	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. red from low line to high line at rated load. ured from 0% to 100% rated load. neasured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up rederating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft). sidered a component which will be installed into a final equipment. All the EMC tests are been executed by 60mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets ance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." rw.meanwell.com) ner: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx											































- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W
- · Miniature size and 1U low profile
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- Compliance to IEC/BS EN/EN 60335-1(PD3) and IEC/BS EN/EN61558-1, 2-16 for household appliances
- Operating altitude up to 5000 meters
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- · LED indicator for power on
- · Over voltage category III
- · 100% full load burn-in test
- · 3 years warranty

Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · Household appliances

■ GTIN CODE

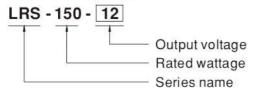
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Description

LRS-150 series is a 150W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC(selectable by switch), the entire series provides an output voltage line of 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-150 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.5W), it allows the end system to easily meet the worldwide energy requirement. LRS-150 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV BS EN/EN62368-1, BS EN/EN60335-1,BS EN/EN61558-1/-2-16, UL62368-1 and GB4943. LRS-150 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding





SPECIFICATION

MODEL		LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48						
	DC VOLTAGE	12V	15V	24V	36V	48V						
	RATED CURRENT	12.5A	10A	6.5A	4.3A	3.3A						
	CURRENT RANGE	0 ~ 12.5A	0 ~ 10A	0~6.5A	0 ~ 4.3A	0 ~ 3.3A						
	RATED POWER	150W	150W	156W	154.8W	158.4W						
OUTPUT	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p						
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V						
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%						
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	LOAD REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	SETUP, RISE TIME	500ms, 30ms/230VAC	500ms,30ms/	115VAC at full load								
	HOLD UP TIME (Typ.)	500000000000000000000000000000000000000	s/115VAC at full loa									
	VOLTAGE RANGE				witch on 230VAC)							
	FREQUENCY RANGE	47 ~ 63Hz	5 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC) 7 ~ 63Hz									
	EFFICIENCY (Typ.)	87.5%	88.5%	89%	89%	90%						
INPUT	AC CURRENT (Typ.)			0370	03 70	30 70						
	INRUSH CURRENT (Typ.)											
	LEAKAGE CURRENT	COLD STAR 60A/230VAC										
	LEARAGE CURRENT	<0.75mA / 240VAC										
	OVER LOAD	110 ~ 140% rated outp										
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PROTECTION	OVER VOLTAGE	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V						
		Protection type : Shut down o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	The state of the s										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes										
	OVER VOLTAGE CATEGORY	III ; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters										
SAFETY &	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,CCC GB4943.1, BSMI CNS15598-1, EAC TP TC 004,KC K60950-1(for LRS-150-12 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005, AS/NZS 62368.1(by CB) approved										
EMC	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC										
(Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-F	G:100M Ohms / 50	OVDC / 25°C / 70% RH								
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2 Class A(≤75% Load), BS EN/EN61000-3-3, GB/T 9254, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-150-12 only)										
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, EAC TPTC 020,KC KN32,KN35(for LRS-150-12 only)										
	MTBF	2707.7K hrs min. Telcordia SR-332 (Bellcore); 558.2Khrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	159*97*30mm (L*W*F	H)		·	·						
	PACKING	0.48Kg; 30pcs/15.4Kg/0.75CUFT										
NOTE	Ripple & noise are measured. Tolerance: includes set u. Line regulation is measured. Length of set up time is not	ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ared at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ared to be regulation and load regulation. and from low line to high line at rated load. ared from 0% to 100% rated load. areasured at cold first start. Turning ONOFF the power supply very quickly may lead to increase of the set up time. are differed a component which will be installed into a final equipment. All the EMC tests are been executed by comm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets ance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."										



































- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- · 1U low profile
- · Withstand 5G vibration test
- · LED indicator for power on
- No load power consumption<0.75W
- · 100% full load burn-in test
- High operating temperature up to 70°C
- · Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- · 3 years warranty

Applications

- Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- · Electronic instruments, equipments or apparatus

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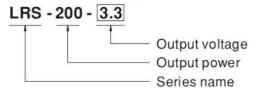
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Description

LRS-200 series is a 200W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-200 that the whole series operates from -25°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-200 has the complete protection functions and 5G antivibration capability; it is complied with the international safety regulations such as IEC/UL 62368-1. LRS-200 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding





MODEL		LRS-200-3.3	LRS-200-4.2	LRS-200-5	LRS-200-12	LRS-200-15	LRS-200-24	LRS-200-36	LRS-200-48			
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V			
	RATED CURRENT	40A	40A	40A	17A	14A	8.8A	5.9A	4.4A			
	CURRENT RANGE	0~40A	0 ~ 40A	0 ~ 40A	0 ~ 17A	0 ~ 14A	0~8.8A	0 ~ 5.9A	0 ~ 4.4A			
	RATED POWER	132W	168W	200W	204W	210W	211.2W	212.4W	211.2W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8\			
	VOLTAGE TOLERANCE Note.3	±3.0%	±4.0%	±3.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION Note.5	±2.5%	±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1300ms, 50m	s/230VAC	1300ms.50m	s/115VAC at fu	ıll load						
	HOLD UP TIME (Typ.)	16ms/230VA	200 100 100 100 100 100 100 100 100 100	VAC at full loa	10							
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)										
	FREQUENCY RANGE	47 ~ 63Hz	·									
	EFFICIENCY (Typ.)	83%	86%	87%	87.5%	88%	89.5%	89.5%	90%			
INPUT	AC CURRENT (Typ.)	4A/115VAC	2.2A/230V		011070	10070	100.070	00.070	10070			
	INRUSH CURRENT (Typ.)	COLD STAR 60A/115VAC 60A/230VAC										
	LEAKAGE CURRENT	<2mA / 240VAC										
	ELINAGE GONNEM	110 ~ 140% rated output power										
	OVER LOAD	3.3~36V Hiccup mode, recovers automatically after fault condition is removed.										
	OVER LOAD	48V Shut down and latch off o/p voltage, re-power on to recover.										
PROTECTION		3.8 ~ 4.45V	4.6 ~ 5.4V	5.75 ~ 6.75V	13.8 ~ 16.2V	18~21V	28.8 ~ 33.6V	41.4 ~ 46.8V	55.2 ~ 64.8			
STOCKE STATE	OVER VOLTAGE	3.3~36V Hiccup mode, recovers automatically after fault condition is removed.										
		48V Shut down and latch off o/p voltage, re-power on to recover.										
	OVER TEMPERATURE	3.3~36V Hiccup mode, recovers automatically after fault condition is removed.										
	OVER TEMPERATURE	48V Shut down and latch off o/p voltage, re-power on to recover.										
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes										
	OVER VOLTAGE CATEGORY											
	0.455TV.074.ND.4.DD0	IEC/UL 62368-1, BSMI CNS15598-1,EAC TPTC 004, KC K60950-1(for LRS-200-12/24 only),										
	SAFETY STANDARDS	BIS IS13252(Part1):2010/IEC 60950-1:2005,BS EN/EN61558-1, BS EN61558-2-16 Designed by AS/NZS 61558.1/2.16, AS/NZS 62368.1,BS EN/EN62368-1										
	WITHSTAND VOLTAGE											
CAFETY	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
SAFETY	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
1	EMC EMISSION		Compliance to BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-200-12/24 only)									
	EMC IMMUNITY	Compliance to BS EN/EN55035, EAC TP TC 020,KC KN32,KN35(for LRS-200-12/24 only)										
	MTBF	2346.6K hrs min. Telcordia SR-332 (Bellcore); 279.4Khrs min. MIL-HDBK-217F (25°ℂ)										
OTHERS	DIMENSION	215*115*30mm (L*W*H)										
	PACKING	0.66Kg; 15pc	s/10.9Kg/0.670	CUFT								

NOTE

- 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. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- 7. The 150% peak load capability is built in for up to 1 second for 12~48V.LRS-200 will enter hiccup mode if the peak load is delivered for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).
- The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
- 9. This power supply does not meet the harmonic current requirements outlined by BS EN/EN61000-3-2. Please do not use this power supply under the following conditions:
 - a) the end-devices is used within the European Union, and
 - b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
 - c) the power supply is:
 - installed in end-devices with average or continuous input power greater than 75W, or
 - belong to part of a lighting system

Exception:

Power supplies used within the following end-devices do not need to fulfill BS EN/EN61000-3-2

- a) professional equipment with a total rated input power greater than 1000W;
- b) symmetrically controlled heating elements with a rated power less than or equal to 200W
- 10.RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

































- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- · Built-in cooling Fan ON-OFF control
- · 1U low profile
- · Withstand 5G vibration test
- · LED indicator for power on
- · No load power consumption<0.75W
- · 100% full load burn-in test
- High operating temperature up to 70°C
- Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- · 3 years warranty

■ Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

■ GTIN CODE

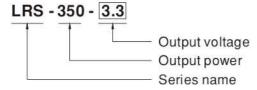
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LRS-350 series is a 350W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 89%, with the built-in long life fan LRS-350 can work under -25~ $\pm 70^{\circ}$ C with full load. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-350 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as IEC/UL 62368-1. LRS-350 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding





MODEL		LRS-350-3.3	LRS-350-4.2	LRS-350-5	LRS-350-12	LRS-350-15	LRS-350-24	LRS-350-36	LRS-350-48				
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V				
	RATED CURRENT	60A	60A	60A	29A	23.2A	14.6A	9.7A	7.3A				
	CURRENT RANGE	0~60A	0~60A	0~60A	0 ~ 29A	0~23.2A	0 ~ 14.6A	0~9.7A	0~7.3A				
	RATED POWER	198W	252W	300W	348W	348W	350.4W	349.2W	350.4W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8				
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±3.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION Note.5	±2.5%	±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%				
	SETUP, RISE TIME	1300ms, 50m	s/230VAC	1300ms,50m	s/115VAC at fu	ll load							
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load											
	VOLTAGE RANGE	90 ~ 132VAC	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)										
	FREQUENCY RANGE	47 ~ 63Hz	Search Control of the American Agencies of the American Control of the America										
	EFFICIENCY (Typ.)	79.5%	81.5%	83.5%	85%	86%	88%	88.5%	89%				
NPUT	AC CURRENT (Typ.)	6.8A/115VAC	300000000000000000000000000000000000000	2014 2010 40	10070	0070	10070	1000000	100/0				
	INRUSH CURRENT (Typ.)	60A/115VAC											
	LEAKAGE CURRENT	<2mA / 240V/											
	110 ~ 140% rated output power												
PROTECTION	OVER LOAD	3.3~36V Hiccup mode, recovers automatically after fault condition is removed. 48V Shut down and latch off o/p voltage, re-power on to recover.											
		3.8 ~ 4.45V			13.8 ~ 16.2V	111111111111111111111111111111111111111	28.8 ~ 33.6V	41.4~46.8V	55.2 ~ 64.8				
Barte kasar dan Kal	OVER VOLTAGE	3.3~36V Hicc	ccup mode, recovers automatically after fault condition is removed.										
	OVER TEMPERATURE	3.3~36V Hiccup mode, recovers automatically after fault condition is removed. 48V Shut down and latch off o/p voltage, re-power on to recover.											
FUNCTION	FAN ON/OFF CONTROL (Typ.)	RTH3 \geq 50°C FAN ON, \leq 40°C FAN OFF											
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
FNVIRONMENT	STORAGE TEMP., HUMIDITY	Service Servic											
an viii Oniii En i	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes											
		III: According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters											
	SAFETY STANDARDS	IEC/UL 62368-1,BSMI CNS15598-1,EAC TP TC 004,KC K60950-1(for LRS-350-12/24 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005,BS EN/EN61558-1, BS EN61558-2-16 Designed by AS/NZS 61558.1/2.16, AS/NZS 62368.1,BS EN/EN62368-1,											
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
SAFETY	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C / 70% RH											
	EMC EMISSION	Compliance to	Compliance to BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-350-12/24 only)										
	EMC IMMUNITY	Compliance to BS EN/EN55035, EAC TP TC 020,KC KN32,KN35(for LRS-350-12/24 only)											
	MTBF	2099.9K hrs	min. Telcore	dia SR-332 (Be	ellcore); 328.	6Khrs min.	MIL-HDBK-21	7F (25°C)					
OTHERS	DIMENSION	215*115*30mm (L*W*H)											
	PACKING		s/12.4Kg/0.67	CUFT									
NOTE	4 All NOT	reight martinged are managed at 220VAC input, rated had and 25°C of ambient temperature											

NOTE

- 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 0.1 uf & 47 uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- Line regulation is measured from low line to high line at rated load.
 Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.

 7. The 150% peak load capability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered
- for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).
- The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
- 9. This power supply does not meet the harmonic current requirements outlined by BS EN/EN61000-3-2. Please do not use this power supply under the following conditions:
 - a) the end-devices is used within the European Union, and
 - b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
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- 10.RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx