

ПАСПОРТ ИЗДЕЛИЯ

Источники питания импульсные HDR-100

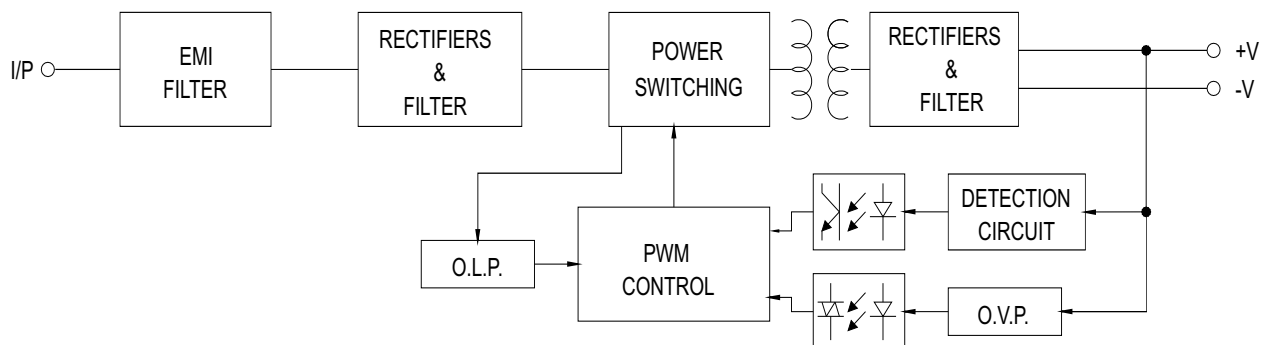




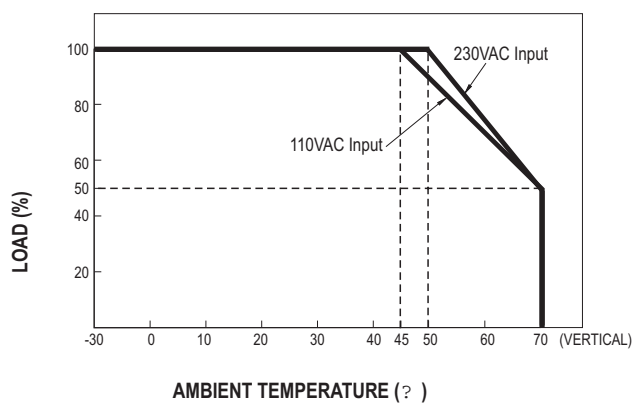
SPECIFICATION

MODEL		HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-48N	
OUTPUT	DC VOLTAGE		12V		15V		24V		48V	
	RATED CURRENT		7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A 2.1A	
	CURRENT RANGE		0 ~ 7.1A	0 ~ 7.5A	0 ~ 6.13A	0 ~ 6.5A	0 ~ 3.83A	0 ~ 4.2A	0 ~ 1.92A 0 ~ 2.1A	
	RATED POWER		85.2W	90W	92W	97.5W	92W	100.8W	92.2W 100.8W	
	RIPPLE & NOISE (max.) Note.2		120mVp-p		120mVp-p		150mVp-p		240mVp-p	
	VOLTAGE ADJ. RANGE	Pass LPS	12 ~ 13V		15 ~ 17V		24 ~ 25.5V		48 ~ 48.7V	
		Non LPS	12~ 13.8V		13.5 ~ 18V		21.6 ~ 29V		43.2 ~ 55.2V	
	VOLTAGE TOLERANCE Note.3		± 2.0%		± 1.0%		± 1.0%		± 1.0%	
	LINE REGULATION		± 1.0%		± 1.0%		± 1.0%		± 1.0%	
	LOAD REGULATION		± 1.0%		± 1.0%		± 1.0%		± 1.0%	
SETUP, RISE TIME		500ms, 60ms/230VAC		500ms, 60ms/115VAC at full load						
HOLD UP TIME (Typ.)		30ms/230VAC		12ms/115VAC at full load						
INPUT	VOLTAGE RANGE		85 ~ 264VAC (277VAC operational)		120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE		47 ~ 63Hz							
	EFFICIENCY (Typ.)		88%		89%		90%		90%	
	AC CURRENT (Typ.)		3A/115VAC		1.6A/230VAC					
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC		70A/230VAC					
PROTECTION	OVERLOAD		HDR-100 : 102 ~ 110% rated output power ; HDR-100-xxN : 105 ~ 150% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50% ~ 100% rated output voltage, recovers automatically after fault condition is removed							
	OVER VOLTAGE		14.2 ~ 16.2V		18.8 ~ 22.5V		30 ~ 36V		56.5 ~ 64.8V	
ENVIRONMENT	WORKING TEMP.		-30 ~ +70℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY		20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT		± 0.03%/℃ (0 ~ 50℃) RH non-condensing							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING ALTITUDE		2000 meters							
	OVER VOLTAGE CATEGORY		III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters							
SAFETY & EMC (Note 5)	SAFETY STANDARDS		UL62368-1, UL508, TUV EN61558-2-16, IEC62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN62368-1							
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC							
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH							
	EMC EMISSION	Parameter		Standard			Test Level / Note			
		Conducted		EN55032(CISPR32), CNS13438			Class B			
		Radiated		EN55032(CISPR32), CNS13438			Class B			
		Harmonic Current (Note 5)		EN61000-3-2			Class A			
		Voltage Flicker		EN61000-3-3			-----			
	EMC IMMUNITY	EN55024, EN61000-6-2, EN61204-3								
		Parameter		Standard			Test Level /Note			
		ESD		EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact, criteria A			
		Radiated Susceptibility		EN61000-4-3			Level 3, criteria A			
		EFT/Burest		EN61000-4-4			Level 3, criteria A			
		Surge		EN61000-4-5			Level 4, 2KV/L-N, criteria A			
		Conducted		EN61000-4-6			Level 3, criteria A			
Magnetic Field		EN61000-4-8			Level 4, criteria A					
Voltage Dips and interruptions		EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods					
OTHERS	MTBF		856.5K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION		70*90*54.5mm (W*H*D)							
	PACKING		0.27Kg; 48pcs/14Kg/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 0.1μf & 47μf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Harmonic current test at 90% load for HDR-100-xxN. 5. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the 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) 6. 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).								

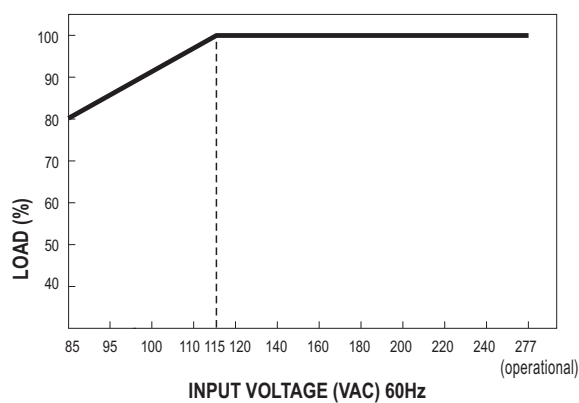
Block Diagram



Derating Curve VS Ambient Temperature

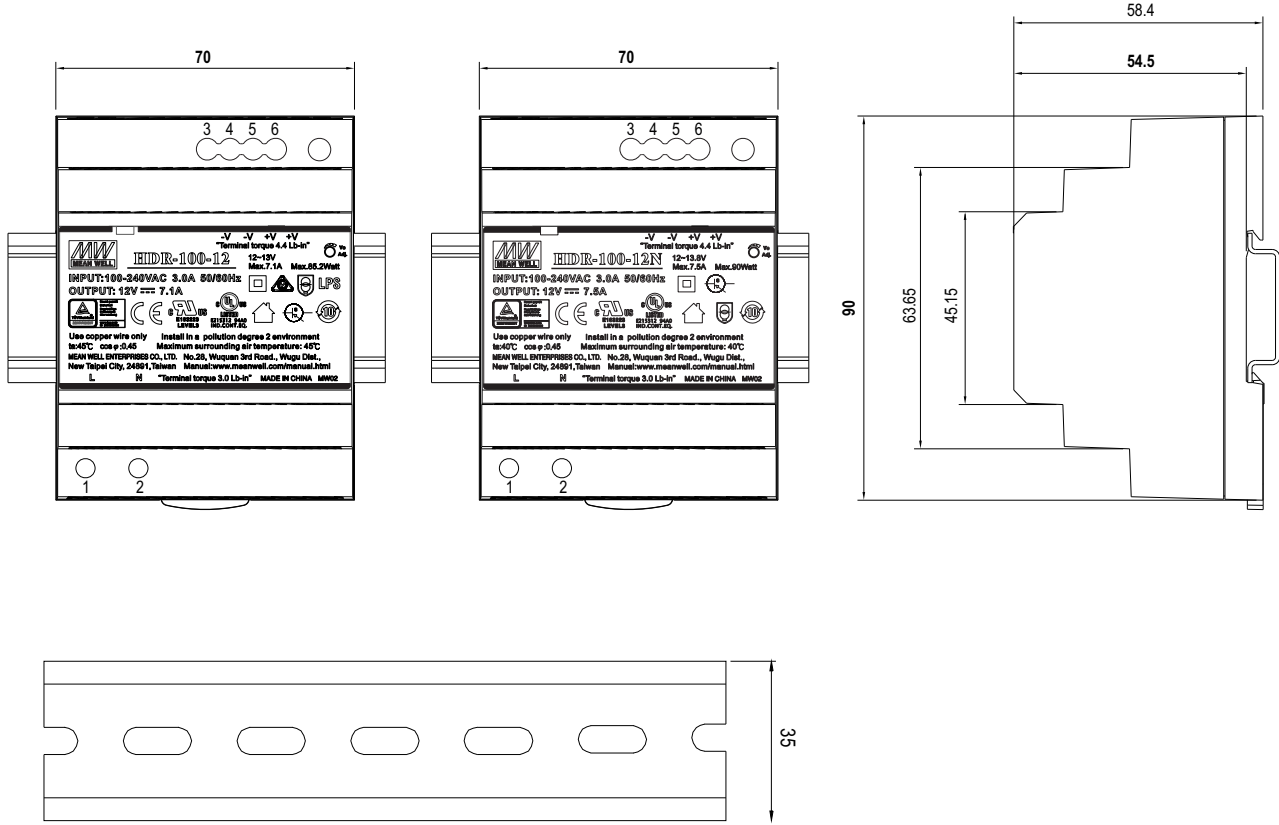


Output Derating VS Input Voltage



Mechanical Specification

(Unit: mm , tolerance $\pm 0.5\text{mm}$)



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3,4	-V
2	AC/N	5,6	+V

Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>



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