

























#### Features

- · Ultra slim design with 105mm(6SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W</li>
- Isolation class II
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- · Cooling by free air convection
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category Ⅲ
- LED indicator for power on
- · 3 years warranty

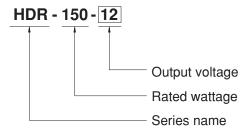
# Applications

- · Household control system
- Building automation
- Industrial control system
- Factory automation
- Electro-mechanical apparatus

## Description

HDR-150 is an economical ultra slim 150W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 105mm(6SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-150 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90.5%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1,UL62368-1,UL61010, EN61558-2-16) make HDR-150 a very competitive power supply solution for household and industrial applications.

## Model Encoding



(as available on http://www.meanwell.com)

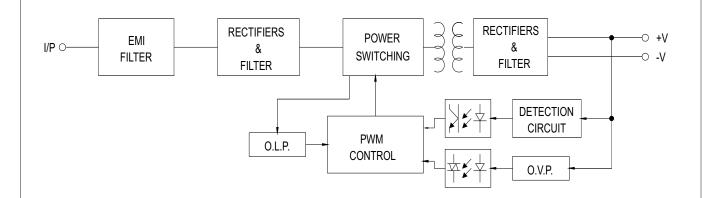


#### **SPECIFICATION**

DC VOLTAGE		12V					
	DC VOLTAGE		15V	24V		48V	
	115VAC	10.2A	8.55A	5.31A		2.72A	
RATED CURRENT  RATED POWER	230VAC	11.3A	9.5A	6.25A		3.2A	
	115VAC	122.4W	128.3W	127.4W		130.6W	
	230VAC	135.6W	142.5W	150W		153.6W	
RIPPLE & NOISE (ma			120mVp-p	150mVp-p		200mVp-p	
JTPUT VOLTAGE ADJ. RANGE  VOLTAGE TOLERANCE Note.3  LINE REGULATION  LOAD REGULATION  SETUP, RISE TIME		10.8~ 13.8V				43.2 ~ 55.2V	
		±2.0%		±1.0%		±1.0%	
		±1.0%	±1.0%	±1.0%		±1.0%	
		±1.0%	±1.0%	±1.0%		±1.0%	
		500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load					
· · · · · · · · · · · · · · · · · · ·	)	30ms/230VAC 12ms/115VAC at full load					
FREQUENCY RANGE  EFFICIENCY (Typ.)  AC CURRENT (Typ.)		47 ~ 63Hz					
			80.5%	90.5%		90.5%	
				30.570		30.070	
	· J F · /						
	Note.4			natically after fault condition	is removed		
					10 101110 104	56.5 ~ 64.8V	
		111 111				30.3 · 04.0 v	
WODVING TEND							
STORAGE TEMP., HUMIDITY							
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
OPERATING ALTITUDE							
		` '	260 EN61550 EN50170 E	N60664 1 EN62477 1.	altituda un te	0 2000 motors	
					•		
			OLO1010, 10V EN01330-2-1	o, EAC IF IC 004 approve	u, Design rele	11 to ENSU170, TOV ENUZSUO-1	
	NOL					Test Level / Note	
						iote	
			,	1			
EMC EMISSION				,			
SAFETY &		,	·				
		-	EN61000-3-3				
EMC (Note.8)		EN55024, EN61000-6-2					
,,,,,,						Test Level /Note	
					Level 3, 8KV air; Level 2, 4KV contact, criteria		
EMC IMMUNITY						Level 3, criteria A	
		EFT/Burest		EN61000-4-4 Leve		,	
		Surge	EN61000-4-5		Level 4,2KV/L-N, criteria A		
		Conducted	EN61000-4-6		Level 3, criteria A		
		Magnetic Field	EN61000-4-8	•			
		Voltage Dips and interrup	e Dips and interruptions EN61000-4-11 >95% dip 0. 5 periods, 30%				
MTDE		>95% Interruptions 250 periods					
All parameters NOT     Ripple & noise are I     Tolerance : includes     Constant current limfault condition is ref     The ambient tempe     When the input volt radiated emission for	measured a set up tole iting operation noved. rature deration age is 230 Vor the powe	nentioned are measured at 2 ta 20MHz of bandwidth by us brance, line regulation and locition within 50% ~100% rated ting of 3.5°C/1000m with fanl /AC,delivers EMI Class B for supply.	30VAC input, rated load and 25 ing a 12" twisted pair-wire termi ad regulation. output voltage; protection type ess models and of 5°C/1000m v	nated with a $0.1\mu f$ & $47\mu f$ pa for short ciruit is hiccup mod- with fan models for operating	e,it will recover	automatically after than 2000m(6500ft).	
	VOLTAGE ADJ. RANG VOLTAGE TOLERANG LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (TYP.) INRUSH CURRENT (TYP.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HL TEMP. COEFFICIENT VIBRATION OPERATING ALTIT OVER VOLTAGE CA SAFETY STANDARD WITHSTAND VOLTAG ISOLATION RESISTA  EMC EMISSION  EMC EMISSION  MTBF DIMENSION PACKING 1. All parameters NOT 2. Ripple & noise are r 3. Tolerance : includes 4. Constant current lim fault condition is ren 5. The ambient tempet 6. When the input voltage 1. All parameters not 2. Ripple & noise are 3. Tolerance : includes 4. Constant current lim fault condition is ren 5. The ambient empet 6. When the input voltage 7. Harmonic current te 7. Harmonic current te	VOLTAGE ADJ. RANGE  VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) OVERLOAD Note.4  OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OPERATING ALTITUDE OVER VOLTAGE ISOLATION RESISTANCE EMC EMISSION  MITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  MTBF DIMENSION PACKING 1. All parameters NOT specially in 2. Ripple & noise are measured a 3. Tolerance: includes set up tole 4. Constant current limiting operating fault condition is removed. 5. The ambient temperature derating the set of the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the temperature derating the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the temperature derating the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the temperature derating the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the temperature derating the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input voltage is 230% radiated emission for the power and the input	VOLTAGE TOLERANCE   Note.3   ±2.0%	VOLTAGE ADJ. RANGE	VOLTAGE ADJ. RANGE	VOLTAGE ADJ. RANGE	

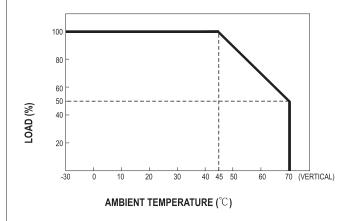


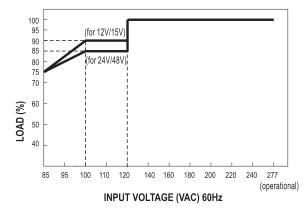
### ■ Block Diagram



### ■ Derating Curve VS Ambient Temperature

### ■ Output Derating VS Input Voltage

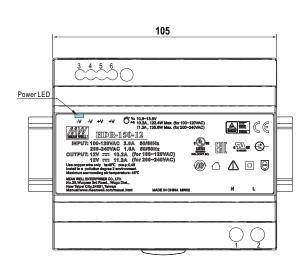


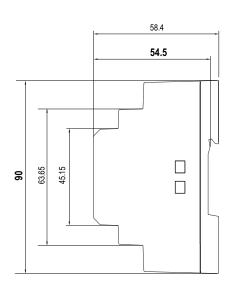


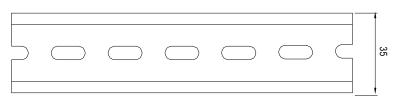


### ■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

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

#### ■ Installation Manual

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