























Features

- · Ultra slim design with 105mm(6SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- · 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

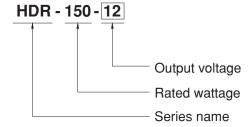
Applications

- 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

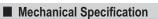


SPECIFICATION

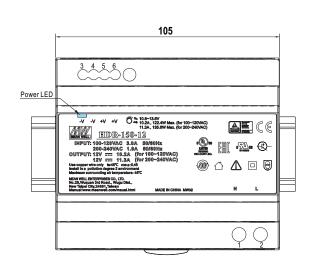
			HDR-150-12	HDR-150-15	HDR-150-24		HDR-150-48	
	DC VOLTAGE		12V	15V	24V		48V	
		115VAC	10.2A	8.55A	5.31A		2.72A	
	RATED CURRENT	230VAC		9.5A	6.25A		3.2A	
		115VAC		128.3W	127.4W		130.6W	
ОИТРИТ	RATED POWER	230VAC		142.5W	150W		153.6W	
	DIDDI E & NOISE (ms							
	RIPPLE & NOISE (max.) Note.2		10.8~ 13.8V	120mVp-p 13.5 ~ 18V	150mVp-p 21.6 ~ 29V		200mVp-p	
	VOLTAGE ADJ. RANGE		1.0.00/				43.2 ~ 55.2V	
	VOLTAGE TOLERANCE Note.3			±1.0%	±1.0%		±1.0% ±1.0%	
	LINE REGULATION		±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.)		89%	89.5%	90.5%		90.5%	
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230VAC					
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC 70A/230VAC					
PROTECTION	OVERLOAD Note.4 OVER VOLTAGE		105 ~ 135% rated output power					
			Protection type : Constant curre	ent limiting, recovers automa	atically after fault conditio	n is removed		
			14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V		56.5 ~ 64.8V	
			Protection type : Shut down o/p			00.0 04.01		
	WORKING TEMP.		Protection type : Shut down o/p voltage, re-power on to recover -30 ~ +70°C (Refer to "Derating Curve")					
			20 ~ 90% RH non-condensing					
	WORKING HUMIDITY		· ·					
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT		±0.03%/°C (0~45°C) 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 (Note 5)					
	OVER VOLTAGE CATEGORY		III; According to EN62368,EN61558, EN50178,EN60664-1, EN62477-1; altitude up to 2000 meters					
	SAFETY STANDARD		IEC62368-1, UL62368-1, UL61010, TUV EN61558-2-16, EAC TP TC 004 approved; Design refer to EN50178, TUV EN62368-					
	WITHSTAND VOLTA		I/P-O/P:4KVAC					
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION		Parameter	Standard		Test Level / Note	9	
			Conducted	EN55032(CISPR32)		Class B		
			Radiated	EN55032(CISPR32)		Class B (note6)		
			Hammania Cumant (N. 1. 7.)	EN61000-3-2		Class A		
			Harmonic Current (Note 7)					
SAFETY &			,					
			Voltage Flicker EN55024, EN61000-6-2	EN61000-3-3				
EMC			Voltage Flicker EN55024, EN61000-6-2	EN61000-3-3		Test Level /Note	e	
EMC			Voltage Flicker EN55024, EN61000-6-2 Parameter	EN61000-3-3 Standard		Test Level /Note		
EMC			Voltage Flicker EN55024, EN61000-6-2 Parameter ESD	Standard EN61000-4-2		Level 3, 8KV air	; Level 2, 4KV contact, criteria	
EMC			Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility	Standard EN61000-4-2 EN61000-4-3		Level 3, 8KV air	; Level 2, 4KV contact, criteria A	
EMC	EMC IMMUNITY		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4		Level 3, 8KV air Level 3, criteria Level 3, criteria	; Level 2, 4KV contact, criteria A A	
EMC	EMC IMMUNITY		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N	; Level 2, 4KV contact, criteria A A N, criteria A	
EMC	EMC IMMUNITY		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria	; Level 2, 4KV contact, criteria A A N, criteria A A	
EMC	EMC IMMUNITY		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria Level 4, criteria	; Level 2, 4KV contact, criteria A A N, criteria A A	
	EMC IMMUNITY		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria Level 4, criteria >95% dip 0. 5	; Level 2, 4KV contact, criteria A A N, criteria A A A periods, 30% dip 25 periods,	
SAFETY & EMC (Note.8)			Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria Level 4, criteria >95% dip 0. 5	; Level 2, 4KV contact, criteria A A N, criteria A A	
EMC (Note.8)	МТВГ		Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions 536K hrs min. MIL-HDBK-21	Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria Level 4, criteria >95% dip 0. 5	; Level 2, 4KV contact, criteria A A N, criteria A A A periods, 30% dip 25 periods,	
EMC			Voltage Flicker EN55024, EN61000-6-2 Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions	EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11		Level 3, 8KV air Level 3, criteria Level 3, criteria Level 4,2KV/L-N Level 3, criteria Level 4, criteria >95% dip 0. 5	; Level 2, 4KV contact, criteria A A N, criteria A A A periods, 30% dip 25 periods,	

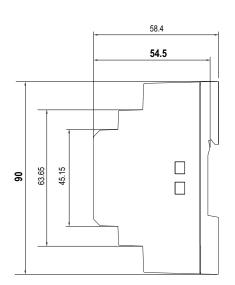


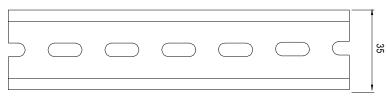
RECTIFIERS **RECTIFIERS POWER** EMI I/P O-& & **SWITCHING FILTER** -O -V **FILTER FILTER** DETECTION **CIRCUIT** PWM O.L.P. CONTROL O.V.P. ■ Output Derating VS Input Voltage ■ Derating Curve VS Ambient Temperature 100 95 (for 12V/15V 90 85 80 75 80 60 LOAD (%) (%) **GV** 50 40 40 20 40 45 50 70 (VERTICAL) -30 100 110 120 140 160 180 200 220 240 277 (operational) AMBIENT TEMPERATURE (°C) INPUT VOLTAGE (VAC) 60Hz



(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