

























#### Features

- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W</li>
- · Isolation class II
- Pass LPS (Limited power source)
- DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- · LED indicator for power on
- · 3 years warranty

# Applications

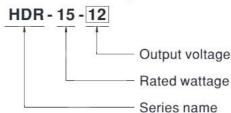
- · Household control system
- · Building automation
- · Industrial control system
- · Factory automation
- Electro-mechanical apparatus

#### Description

HDR-15 is one economical ultra slim 15W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 17.5mm(1SU) 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-15 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 87%, the entire series can operate at the ambient temperature between -30 $^\circ$ C and  $70^{\circ}\mathrm{C}$  under air convection. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-15 a very competitive power supply solution for household and industrial applications.

# Model Encoding

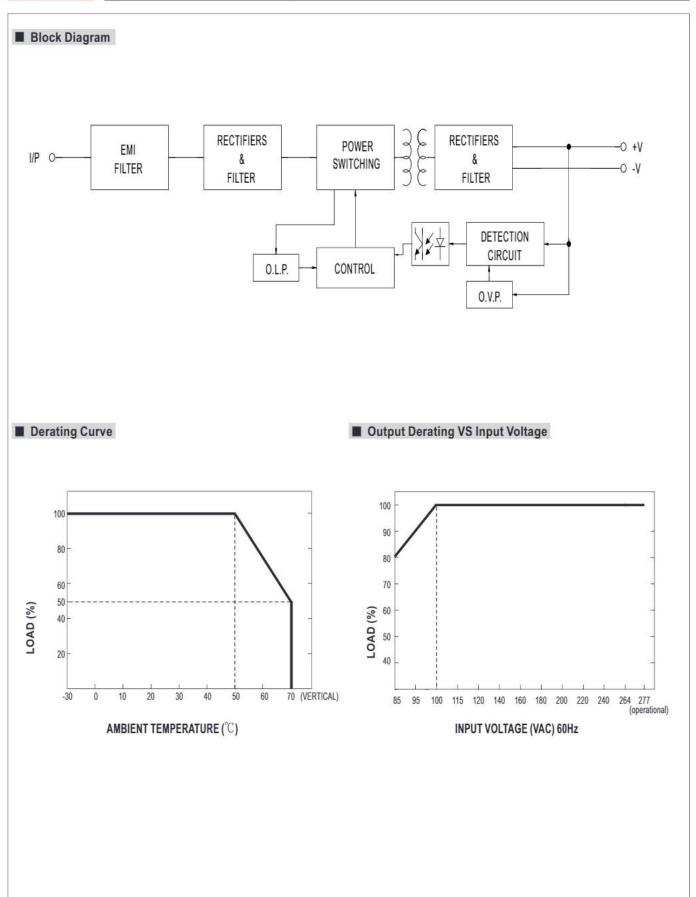




### **SPECIFICATION**

MODEL		HDR-15-5	HDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48	
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V	48V	
	RATED CURRENT	2.4A	1.25A	1A	0.63A	0.32A	
	CURRENT RANGE	0~2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A	
	RATED POWER	12W	15W	15W	15.2W	15.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	2000ms, 80ms/230VAC 2000ms, 80ms/115VAC at full load					
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational ) 120 ~ 370VDC (390VDC operational )					
	FREQUENCY RANGE	47 ~ 63Hz					
NPUT	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%	
	AC CURRENT (Typ.)		25A/230VAC			1	
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
	(7),	110 ~ 145% rated output power					
	OVERLOAD Note.4	Protection type : Constant current limiting, recovers automatically after fault condition is removed					
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5~ 64.8V	
		Control Contro	I I the control of the control of the		00 00V	00.0 04.00	
	WORKING TEMP.	Protection type: Shut off o/p voltage, clamping by zener diode  -30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	THE HOUSE FROM THE STATE OF THE					
MINONMENT	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	VIBRATION	±0.03%/°C (0 ~ 50°C) RH non-condensing  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
	OPERATING ALTITUDE	10 ~ 500Hz, 2G 10min./Tcycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-Z-6  2000 meters					
	SAFETY STANDARDS		IIV FN61558-2-16 IFC	160950-1 approved: Design	refer to EN50178 THV FI	N60950-1	
	WITHSTAND VOLTAGE	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1 approved; Design refer to EN50178, TUV EN60950-1  I/P-O/P:3KVAC					
	ISOLATION RESISTANCE		E00VDC / 25°C / 700V F	DLI .			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH       Parameter     Standard       Test Level / Note				•	
	EMC EMISSION  EMC IMMUNITY						
			EN55032(CISPR32)		Class B		
		Radiated EN55032(0			Class B		
		Harmonic Current		EN61000-3-2 Class			
SAFETY &		Voltage Flicker	EN61000				
EMC			EN61000-6-2, EN6120-		7	2	
(Note 5)		Parameter	Standard		Test Level /Note		
		ESD	EN61000		Level 3, 8KV air; Level 2, 4KV contact, criteria		
		Radiated Susceptibility			Level 3, criteria A		
		1.20 12.20		-4-4	Level 3, criteria A		
		Surge EN6100			Level 4,2KV/L-N, criteria A		
		Conducted EN61000-4		AND AND ADDRESS OF THE PARTY OF	Level 3, criteria	7.71 × 1	
		Magnetic Field EN61000-4-8		-4-8	Level 4, criteria A >95% dip 0. 5 periods, 30% dip 25 periods,		
		Voltage Dips and interruptions EN61000-4-11				periods, 30% dip 25 periods, tions 250 periods	
OTHERS	MTBF	1166K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	17.5*90*54.5mm (W*H*D)					
	PACKING	78g;160pcs/13.5Kg/1.19CUFT					
NOTE	Ripple & noise are measure     Tolerance : includes set up     Constant current limiting opera automatically after fault conditions.     The power supply is considered.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \(mu f\) & 47 \(mu f\) by parallel capacitor. To tolerance, line regulation and load regulation. The regulation are doubt voltage; protection type for short ciruit is hiccup mode, it will recover the removed. The removed as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC on how to perform these EMC tests, please refer to "EMI testing of component power supplies."					

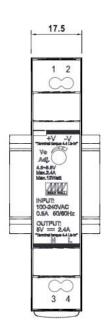


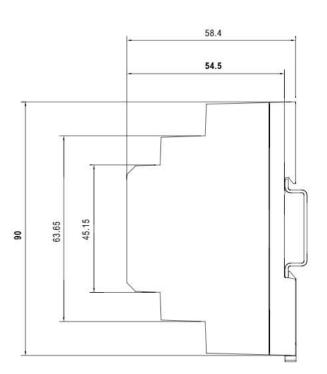


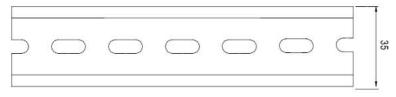


### ■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

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

#### ■ Installation Manual

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