

























Features

- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC available)
- No load power consumption<0.3W
- · 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

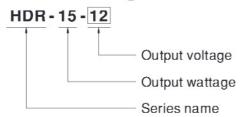
Applications

- 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 also available) 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°C and 70°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



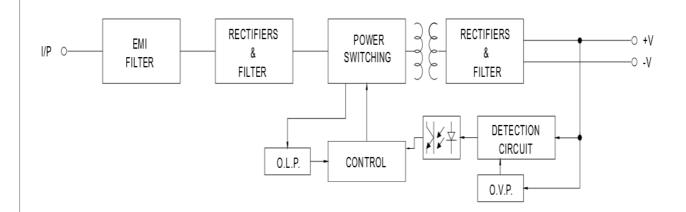


SPECIFICATION

MODEL		HDR-15-5	HDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48		
	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		
OUTPUT	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/230VA	C 2000ms, 80ms/11	5VAC at full load				
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC (277VAC available) 120 ~ 370VDC (390VDC available)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%		
	AC CURRENT (Typ.)	0.5A/115VAC 0.2	25A/230VAC		1	1		
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC						
	(.,,,,,	110 ~ 145% rated output power						
	OVERLOAD Note.4		•	ecovers automatically after	fault condition is removed			
PROTECTION		5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5~ 64.8V		
	OVER VOLTAGE	CENTRE CENTRES			30~307	30.3° 04.0V		
		Protection type: Shut off o/p voltage, clamping by zener diode						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
м/полисит	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%/C (0 ~ 50°C) RH non-condensing						
	VIBRATION OPERATING ALTITUDE	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6						
	OPERATING ALTITUDE	2000 meters						
	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1 approved; Design refer to EN50178, TUV EN60950-1						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
EM C	ISOLATION RESISTANCE	I/P-O/P:100M Ohms /				je		
Note 5)	EMC EMISSION EMC IMMUNITY	Parameter Standard			Test Level / Note			
		Conducted EN55032(Class B		
				2(CISPR32)	Class B			
		Harmonic Current	EN61000	0-3-2	Class A			
		Voltage Flicker		EN61000-3-3				
		EN55024, EN55035, EN61000-6-2, EN61204-3						
		Parameter	Standar	d	Test Level /Note			
		ESD	EN6100	0-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria			
		Radiated Susceptibility	EN6100	0-4-3	Level 3, criteria A			
		EFT/Burest	EN6100	0-4-4	Level 3, criteria A			
		Surge EN		0-4-5	Level 4,2KV/L-N, criteria A			
		Conducted	EN6100	0-4-6	Level 3, criteria A			
		Magnetic Field EN61000		0-4-8	Level 4, criteria	Level 4, criteria A		
				0-4-11	>95% dip 0. 5	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTBF	1166K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	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 t Constant current limiting opera automatically after fault condition The power supply is consider	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. at up tolerance, line regulation and load regulation. operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode, it will recover ondition is removed. Insidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC eon how to perform these EMC tests, please refer to "EMI testing of component power supplies."						

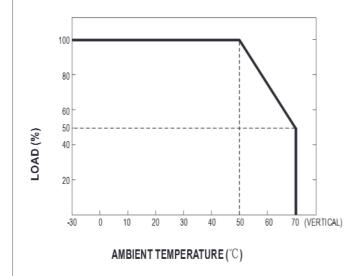


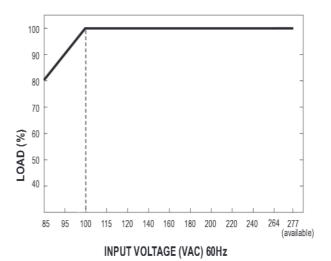
■ Block Diagram



■ Derating Curve

■ Output Derating VS Input Voltage

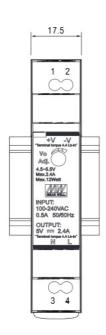


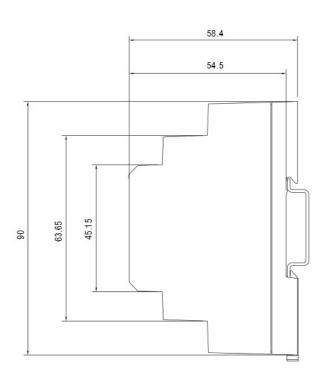




■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

- Control of the cont										
	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