



勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



























Features

- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC operational)
- 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
- Over voltage category Ⅲ
- · LED indicator for power on
- · 3 years warranty

Applications

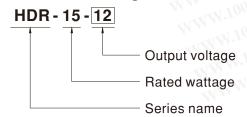
- Household control system
- Building automation
- · Industrial control system
- Factory automation
- Electro-mechanical apparatus

Description

HDR-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 $^{\circ}$ 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

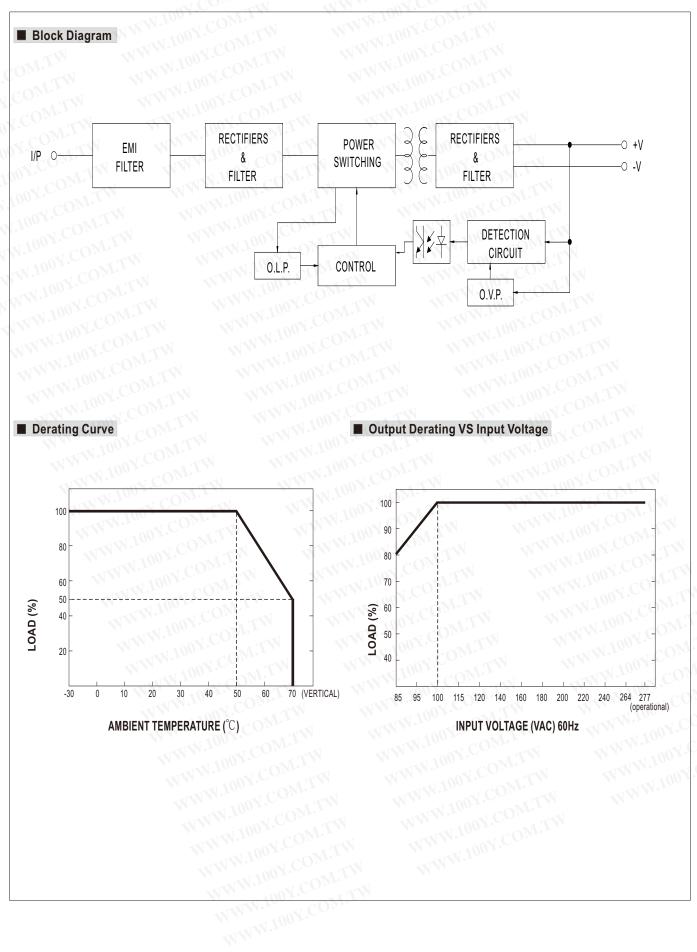




SPECIFICATION

MODEL	100	HDR-15-5	IDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48	
	DC VOLTAGE	5V 1	2V	15V	24V	48V	
	RATED CURRENT	2.4A 1	.25A	1A COM	0.63A	0.32A	
	CURRENT RANGE	0 ~ 2.4A) ~ 1.25A	0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A	
	RATED POWER	12W 1	5W	15W	15.2W	15.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p 1	20mVp-p	120mVp-p	150mVp-p	240mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	0.8 ~ 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					
O.V.C	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz					
INPUT	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%	
	AC CURRENT (Typ.)	0.5A/115VAC					
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
111.10t	110 ~ 145% rated output power						
	OVERLOAD Note.4			vers automatically after fa	ult condition is removed	(.)	
PROTECTION	OVER VOLTAGE	21111	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5~ 64.8V	
				-7	00000	100.0 04.0V	
	WORKING TEMP.	Protection type: Shut off o/p voltage, clamping by zener diode					
	WORKING HUMIDITY	-30 ~ +70°C (Refer to "Derating Curve")					
ENVIDONMENT	STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	1011	±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					
	TANK TON	2000 meters					
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters					
	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950					
	WITHSTAND VOLTAGE						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	11/1/1007.0	Parameter	Standard	DY.	Test Level / Note		
	EMC EMISSION	Conducted	77	ISPR32), CNS13438	Class B		
		Radiated	40 4	ISPR32), CNS13438	Class B		
		Harmonic Current	EN61000-3-		Class A		
SAFETY &		Voltage Flicker					
EMC	EMC IMMUNITY	EN55024, EN55035, EN61		3. CO.	W W	W TOOY.CO	
(Note 5)		Parameter	Standard	N.In. COM	Test Level /Not	e WW. TO CO	
		ESD	EN61000-4	-2 × 100 ×	Level 3, 8KV air	; Level 2, 4KV contact, criter	
		Radiated Susceptibility	EN61000-4	-3 100 X.Co	Level 3, criteria A		
		EFT/Burest	EN61000-4	-4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Level 3, criteria	A WWW.	
		Surge	EN61000-4	-5 V.100	Level 4,2KV/L-N, criteria A		
		Conducted	EN61000-4	-6 10 0 Y	Level 3, criteria A		
		Magnetic Field	EN61000-4	-8		Level 4, criteria A	
	WW	Voltage Dips and interruption	ons EN61000-4	-11 VVV	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 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					
 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. Constant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode,it will recover automatically after fault condition is removed. 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 directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." 						will recover	





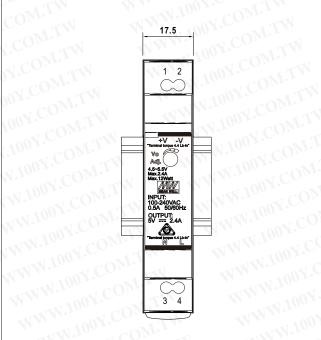


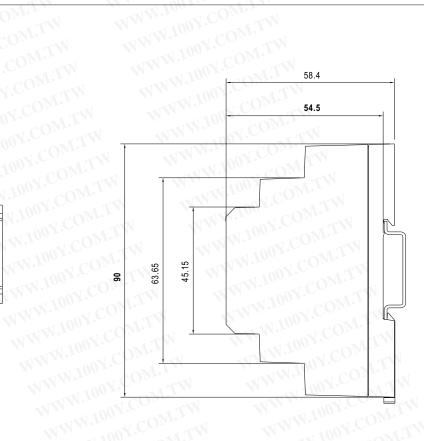
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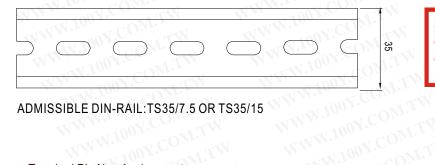
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■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

		O .		
Pin No.	Assignment	Pin No.	Assignment	
1	+V	3	AC/N	
2	-V	4	AC/L	
	N C	N.100	COM.	

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html WWW.100Y.COM

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