YDR15 Series

15 W AC/DC DIN Rail Power Supply

CoolPower Solutions

- Universal Input 90~264Vac
- Ultra slim step shape plastic housing
- Class 2 / Pass LPS
- Isolation class II
- Short circuit / Overload / Over voltage protections
- DC output voltage adjustable
- Over voltage category III



Electrical specifications

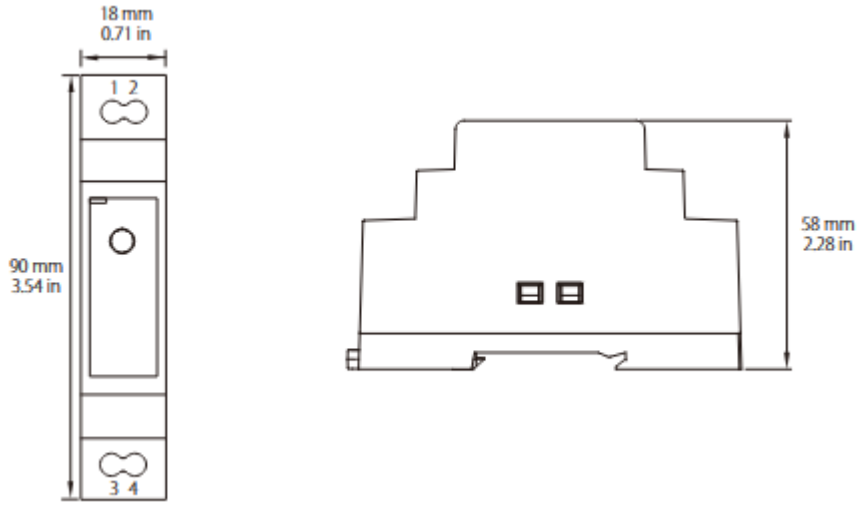
Model No.		YDR15-5	YDR15-12	YDR15-15	YDR15-24	YDR15-48
Max Output Wattage (W)		15 W	15 W	15 W	15 W	15 W
Input	Voltage	90-264 VAC or 127-370 VDC				
	Frequency	47-63 Hz				
	Current (max at full load)	0,5 A (115 VAC) / 0,25 A (230 VAC)				
	Inrush current (max)	Cold start 25 A (115 VAC) / 45 A (230 VAC)				
	Efficiency	80 %	85 %	85,5 %	86 %	87 %
Output	Voltage (VDC)	5 V	12 V	15 V	24 V	48 V
	Voltage adjustable range	4,5 – 5,5 VDC	10,8 – 13,8 VDC	13,5-18 VDC	21,6-29 VDC	43,2-55,2 VDC
	Output voltage tolerance	±2 %	±2 %	±2 %	±2 %	±2 %
	Rated current	2,4 A	1,25 A	1,0 A	0,63 A	0,31 A
	Minimum load	0 A	0 A	0 A	0 A	0 A
	Line regulation	±1 %	±1 %	±1 %	±1 %	±1 %
	Load regulation	±1 %	±1 %	±1 %	±1 %	±1 %
	Ripple & Noise (max)	80 mVp-p	120 mVp-p	120 mVp-p	150 mVp-p	240 mVp-p
	Hold-up time	30 ms / 230VAC 12 ms / 115VAC at full load				
	Setup / Rise time	2000ms, 80ms/230VAC 2000ms, 80ms/115VAC at full load				
Protection	Over load	110~145% rated output power				
		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed. Constant current limiting within 50%-100% rated output voltage, recovers automatically after fault condition is removed.				
	Over voltage	5,75-6,75V	14,2-16,2V	18,8-22,5V	30-36V	56,5-64,8V
		Protection type: Shut off o/p voltage, clamping by zener diode				
Environment	Operating temperature	-20°C…+70°C (with derating)				
	Humidity	20 - 90% RH				
	Temperature coefficient	±0,03%/°C (0…50°C) RH non-condensing				
Physical	Dimension (L x W x H)	18 x 90 x 58 mm				
	Weight	78 g				
	Cooling method	Free air convection				
Safety	Safety standards	UL62368-1, BS EN62368-1				
	Withstand voltage	I/P-O/P: 3kVAC				
	Isolation resistance	I/P-O/P: 100MΩ Max / 500VDC / 25°C / 70 RH				
	EMC	EN55032 Class B, IEC61000-3-2, -3 EN61000-4-2, 3,4,5,6,8,11				

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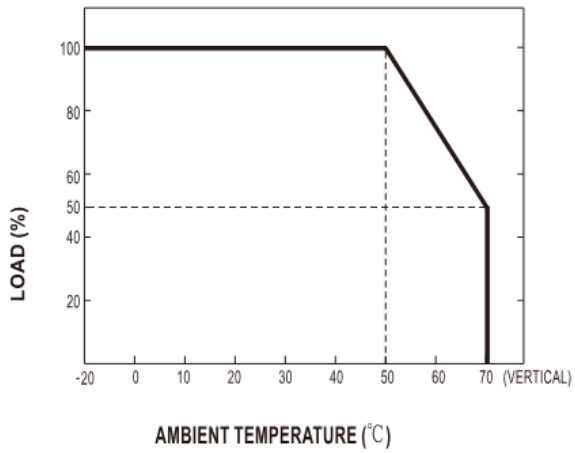
Mechanical Specifications



Electrical curves

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Derating



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