

YDR150N Series

120 W AC/DC DIN Rail Power Supply

CoolPower
Solutions

- Universal Input 90~264Vac
- Slim metal case
- DIN rail TS-35/7,5 & 15
- Short circuit / Overload / Over voltage protections
- Temperature protection
- DC output voltage adjustable
- Free air convection design



Electrical specifications

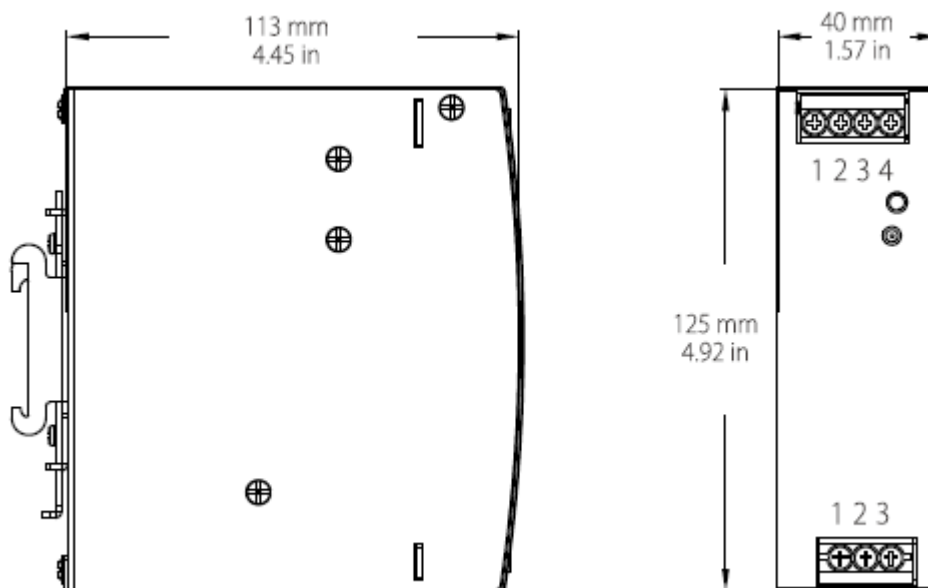
Model No.		YDR150N-12	YDR150N-24	YDR150N-48
Max Output Wattage (W)		120 W	120 W	120 W
Input	Voltage	90-264 VAC or 127-370 VDC		
	Frequency	47-63 Hz		
	Current (max at full load)	2,25 A (115 VAC) / 1,3 A (230 VAC)		
	Inrush current (max)	20 A (115 VAC) / 35 A (230 VAC)		
	Leakage current	< 1mA / 240 VAC		
	Efficiency	85,5 %	88,0 %	89,0 %
Output	Voltage (VDC)	12 V	24 V	48 V
	Voltage adjustable range	12 – 14 VDC	24-28 VDC	48-55 VDC
	Output voltage tolerance	±2 %	±2 %	±2 %
	Rated current	10 A	5 A	2,5 A
	Minimum load	0 A	0 A	0 A
	Line regulation	±0,5 %	±0,5 %	±0,5 %
	Load regulation	±1 %	±1 %	±1 %
	Ripple & Noise (max)	80 mVp-p	120 mVp-p	150 mVp-p
	Hold-up time	16 ms / 230VAC 10 ms / 115VAC at full load		
	Setup / Rise time	1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at full load		
Protection	Over load	105~130% rated output power Hiccup mode - recovers automatically after fault condition is removed.		
	Over voltage	14-17V	29-33V	56-65V
		Protection type: Shut down o/p voltage, re-power on to recover		
	Over Temperature	Protection type: Shut down o/p voltage, re-power on to recover		
Environment	Operating temperature	-20°C...+70°C (with derating)		
	Humidity	20 - 95% RH		
	MTBF	450 000 h Min. MIL-HDBK-217F (25°C)		
Physical	Dimension (W x H x D)	40 x 125 x 113 mm		
	Weight	600 g		
	Cooling method	Free air convection		
Safety	Safety standards	UL508, BS EN62368-1		
	Withstand voltage	I/P-O/P: 3kVAC		
	Isolation resistance	I/P-O/P: 100MΩ Min / 500VDC / 25°C / 70 RH		
	EMC	Compliance to EN55032, EN61000-3-2, -3 Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55035, EN61000-6-2, EN50082-2		

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Mechanical Specifications



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Electrical curves

Derating

