

YDR30 Series

30 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

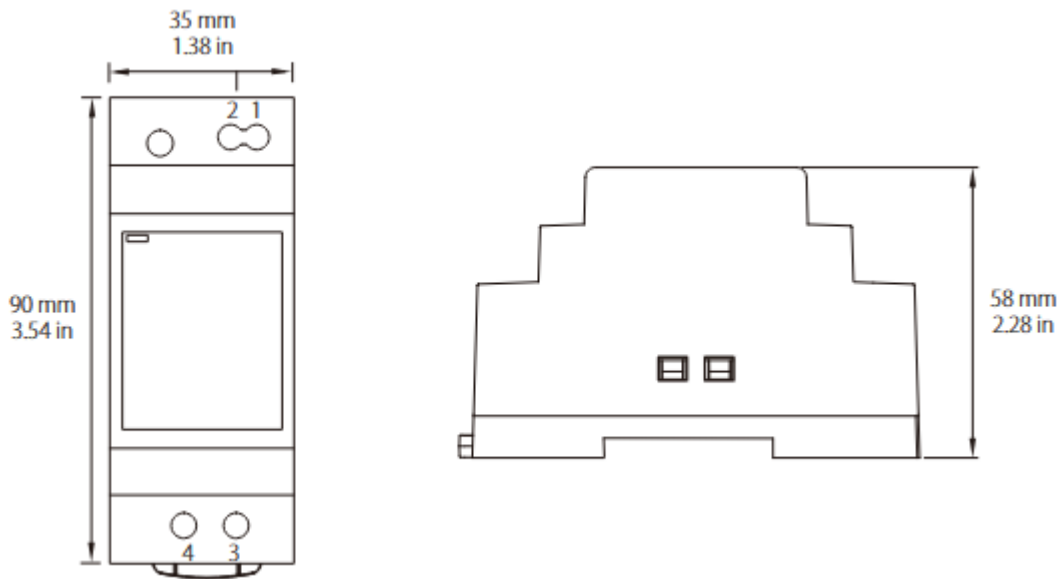
Model No.	YDR30-5	YDR30-12	YDR30-15	YDR30-24	YDR30-48
Max Output Wattage (W)	15 W	24 W	30 W	30 W	30 W
Input	Voltage				
	90-264 VAC or 127-370 VDC				
	Frequency				
	47-63 Hz				
	Current (max at full load)				
0,88 A (115 VAC) / 0,48 A (230 VAC)					
Inrush current (max)					
Cold start 25 A (115 VAC) / 45 A (230 VAC)					
Efficiency					
82 % 88 % 89 % 89 % 90 %					
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				
	3,0 A 2,0 A 2,0 A 1,25 A 0,63 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					
500ms, 50ms/230VAC 500ms, 50ms/115VAC at full load					
Protection	Over load				
	105~160% 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.				
Protection	Over voltage				
	5,75-7,5V	15-18V	18,8-22,5V	30-36V	57,6-67,2V
Protection type: Shut off o/p voltage, re-power on to recover					
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)				
	35 x 90 x 58 mm				
	Weight				
120 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



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Electrical curves

Derating

