CDR-30 Series

30 W AC/DC DIN Rail Power Supply

CoolPower Solutions

- Universal Input 90~264Vac
- 100% Full Load Burn-in Test
- All Round Protections: Short Circuit, Over Voltage, Over Current, Over Temperature
- Cooling by Free Air Convection
- LED Indicator for DC Power On
- LED Indicator for DC Low



Electrical specifications

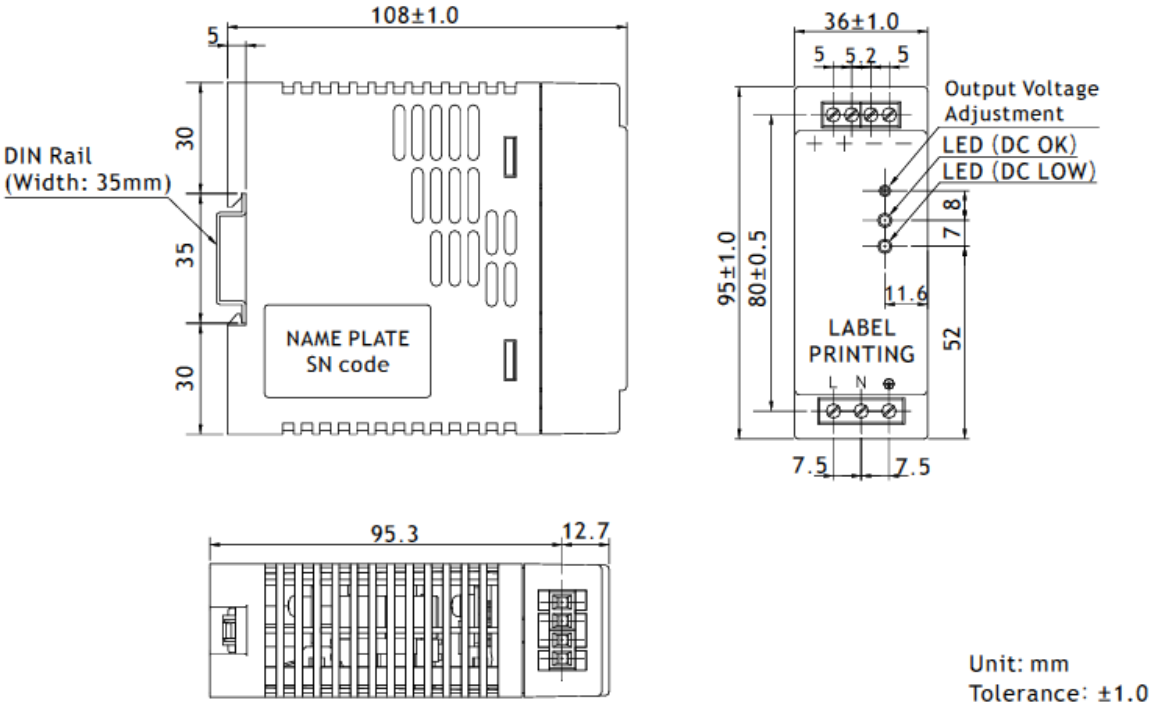
Model No.		CDR30-5	CDR30-12	CDR30-24
Max Output Wattage (W)		25 W	30 W	30 W
Input	Voltage	90-264 VAC		
	Frequency	47-63 Hz		
	Current (max at full load)	0,65 A (115 VAC) / 0,35 A (230 VAC)		
	Inrush current (max)	Cold start 30 A (115 VAC) / 60 A (230 VAC) , inrush limiting circuit		
	Stand-by power consumption	1 W / 230 VAC typically		
	Surge voltage L-N	2 kV typically		
Output	Voltage (VDC)	5,0 V	12 V	24 V
	Voltage adjustable range	4,5 - 5,3 VDC	11,6 - 12,3 VDC	23,5 - 24,5 VDC
	Output voltage accuracy	Typ. ±1 %	Typ. ±1 %	Typ. ±1 %
	Rated current	5,0 A	2,5 A	1,3 A
	Minimum load	0 A	0 A	0 A
	Line regulation	1% typically	1% typically	1% typically
	Load regulation	1% typically	1% typically	1% typically
	Ripple (max)	32 mV	42 mV	46 mV
	Efficiency (typ)	78 %	83 %	87 %
	Hold-up time (typ)	20 ms / 115 VAC		
	Turn-on delay time (typ)	100 ms, / 115 VAC		
Protection	Short circuit	Hiccup mode, the power supply will recover after the power is turned on again		
	Over current	6 A	4 A	2,2 A
		Type: Cut off, recovers automatically after fault condition is removed		
	Over voltage	6,5 V	16 V	30 V
		Protection type : Cut off, recover after the power is turned on again		
	Over temperature	Protection value 100±10°C. Type: Cut off, recover after the power is turned on again.		
Environment	Operating temperature	-25°C…+70°C (with derating)		
	Humidity	20 - 95% RH		
	MTBF	Min 200 000 h @ Full load, 220 VAC input, 25°C ambient temperature		
Physical	Dimension (L x W x H)	36 x 95 x 108 mm		
	Weight	250 g		
	Cooling method	Free air convection		
Safety	Safety standards	Design refer to UL60950-1, EN60950-1		
	Isolation voltage	I/P-O/P: 3KVac, I/P-FG: 1.5KVac, O/P-FG: 1.5KVac		
	Isolation resistance	100mΩ Max./500VDC		
	EMC	EN 55022:2010+AC:2011 (CISPR 22:2008) ClassB EN 61000-3-2:2014 (IEC 61000-3-2:2014) EN 61000-3-3:2013 (IEC 61000-3-3:2013) EN 55024:2010 (CISPR 24:2010)		
Note	1. The ripple values are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25℃ at rated input voltage and rated load; 2. The efficiency values are measured under ambient temperature 25℃ at rated input voltage and rated load. 3. Unless otherwise specified, all the above parameters are measured at ambient temperature of 25℃, rated load and Vin=115/230Vac.			

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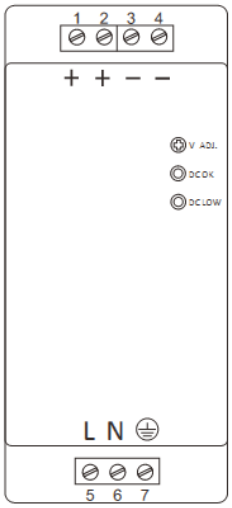
Mechanical Specifications



Unit: mm
Tolerance: ±1.0

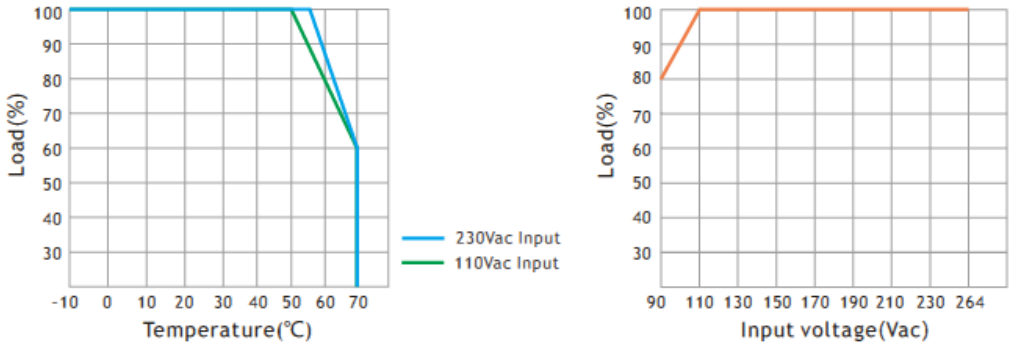
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Connections



Marking	No.	Assignment
+	1	DC(+) Output Terminal
+	2	
−	3	DC(-) Output Terminal
−	4	
L	5	AC(L) Input Terminal
N	6	AC(N) Input Terminal
⏚	7	AC Grounding Terminal
V-ADJ.	/	DC Output voltage adjustment trimmer
DC OK	/	DC Output OK indication LED(Green)
DC LOW	/	DC Output Low indication LED(Red)

Electrical curves



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