CDR-240 Series

240 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.		CDR240-24	CDR240-48
Max Output Wattage (W)		240 W	240 W
Input	Voltage	90-264 VAC	
	Frequency	47-63 Hz	
	Current (typ at full load)	2,6 A (115 VAC) / 1,3 A (230 VAC)	
	Inrush current (max)	Cold start 35 A (115 VAC) / 65 A (230 VAC) , inrush limiting circuit	
	Power factor (PF)	0,99 (115 VAC), 0,96 (230 VAC) at full load	
	Stand-by power consumption	Max. 7 W / 230 VAC	
	Surge voltage L-N	Max 2 kV	
Output	Voltage (VDC)	24 VDC	48 VDC
	Voltage adjustable range	22 - 28 VDC	45 - 55 VDC
	Output voltage accuracy	±2 % max	±2 % max
	Rated current	10 A	5,0 A
	Minimum load	0 A	0 A
	Line regulation	2 % max	2 % max
	Load regulation	3 % max	3 % max
	Ripple (max)	1%Vo mVp-p	1%Vo mVp-p
	Efficiency (typ)	90 %	91 %
	Hold-up time (typ)	20 ms / 115 VAC	
	Turn-on delay time (typ)	3600 ms, / 115 VAC	
Protection	Short circuit	Hiccup mode, it will recover automatically after fault condition is removed	
	Over current	11 A	5,5 A
		Cut off, recovers automatically after fault condition is removed	
	Over voltage	33 V	66 V
		Protection type : Cut off, recover after the power is turned on again	
	Over temperature	110±10°C. Type: hiccup mode, recover automatically after the fault condition is removed	
Environment	Operating temperature	-25°C…+70°C (with derating)	
	Humidity	20 - 95% RH	
	MTBF	Min 230 000 h @ Full load, 220 VAC input, 25°C ambient temperature	
Physical	Dimension (L x W x H)	60 x 130 x 125 mm	
	Weight	1000 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: 0.5KVac	
	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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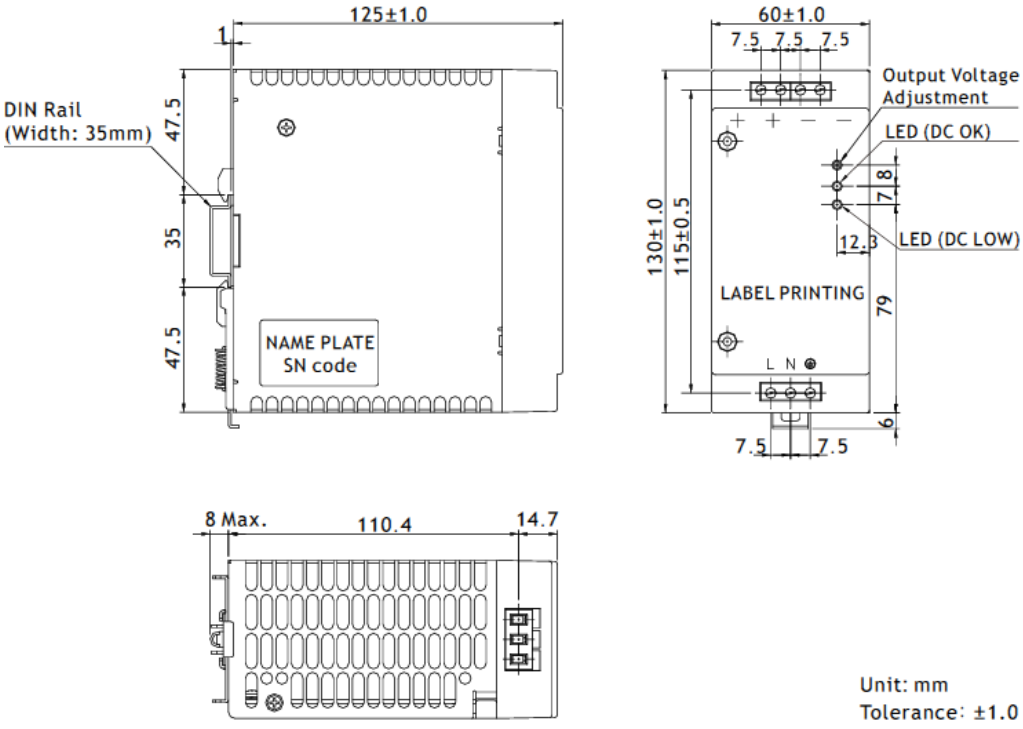
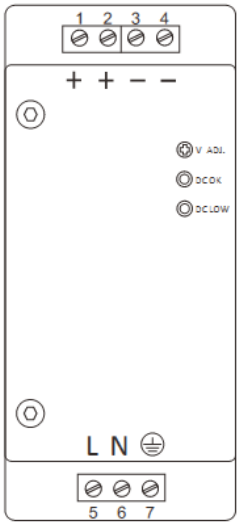
Mechanical Specifications



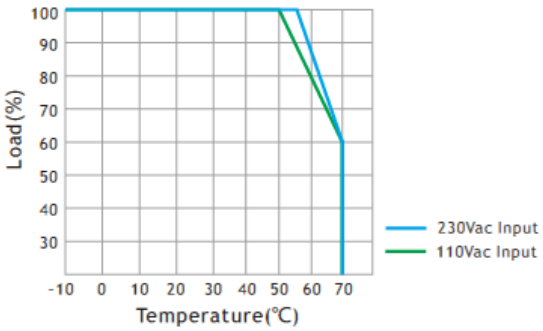
Unit: mm
Tolerance: ±1.0

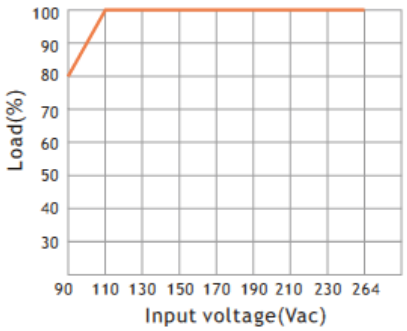
Connections



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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