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CUI INC®

SERIES: VDRS-60 | **DESCRIPTION:** AC-DC DIN RAIL

DISCONTINUED

FEATURES

- 60 W continuous power
- DIN Rail power supplies
- universal input (88-264 Vac / 124-370 Vdc)
- single output from 12 to 48 V
- over voltage, over load, over temperature, and short circuit protections
- UL1310, UL 508, and TUV safety approvals
- long life electrolytic capacitors
- efficiency up to 88%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency (%)
VDRS-60-12	12	5	60	100	86
VDRS-60-15	15	4	60	100	87
VDRS-60-24	24	2.5	60	120	87
VDRS-60-48	48	1.25	60	180	88

Note:
1. at full load, 230 Vac input, measured at 20MHz bandwidth with a 47 µF and 0.1 µF parallel cap on the output

PART NUMBER KEY

VDRS - 60 - XX

Base Number

Output Voltage

INPUT

parameter	conditions/description	min	typ	max	units
voltage		88 124		264 370	Vac Vdc
frequency		47		63	Hz
current	115 Vac 230 Vac			1.3 0.6	A A
inrush current	115 Vac, cold start 230 Vac			30 60	A A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation				±1	%
load regulation				±1	%
temperature coefficient	(0 ~ 50°C)		±0.03		%/°C
hold-up time	at 115 Vac, cold start at 230 Vac, cold start	16 32			ms ms
adjustibility	adjustible with built-in trim pot			±10	%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	latch-off mode	115		150	%
over load protection	constant current limiting, automatically recovers after fault condition is removed	102			%
short circuit protection	output shut down and auto restart				

SAFETY & COMPLIANCE

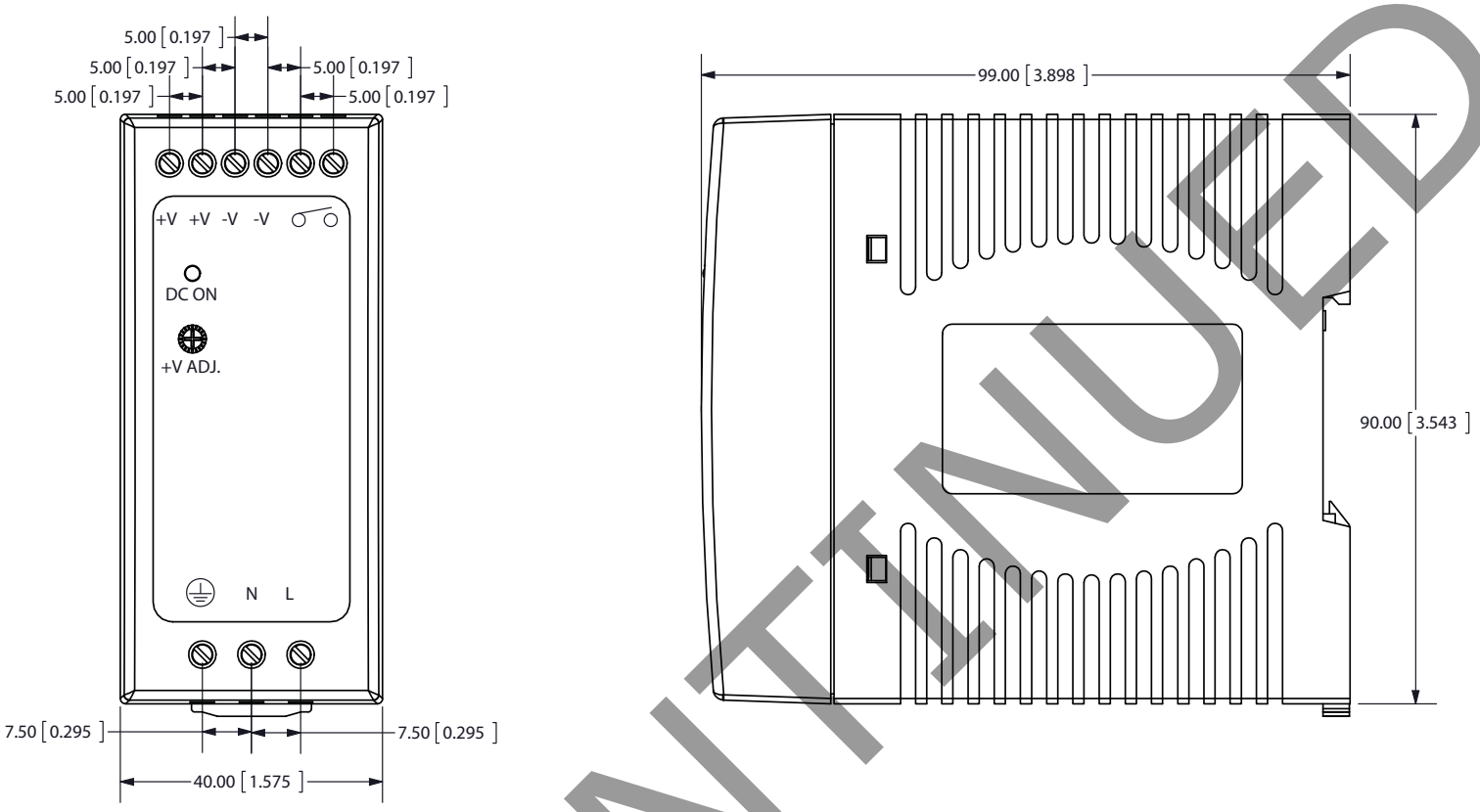
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute input to case for 1 minute			3,000 1,500	Vac Vac
isolation resistance	input to output, input to case, output to case, 500 Vdc	100			MΩ
safety approvals	UL 508, TUV EN60950-1, UL1310 NEC class 2 compliant				
EMI/EMC	EN55022 : 2006(Class B), EN61204-3: 2000, EN61000-6-3: 2007, EN61000-3-2,3 :2006, EN55024, EN61204-3: 2000, EN61000-6-1: 2007 (EN61000-4-2,3,4,5,6,8,11)				
leakage current				1	mA
RoHS compliant	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-20		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity		10		95	%
vibration	(10 ~ 500 Hz, 1 hour per axis, 3 hours total)		5		Grms

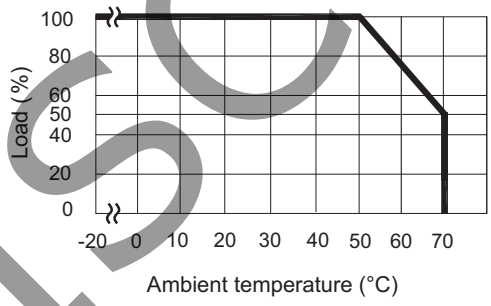
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MECHANICAL DRAWING

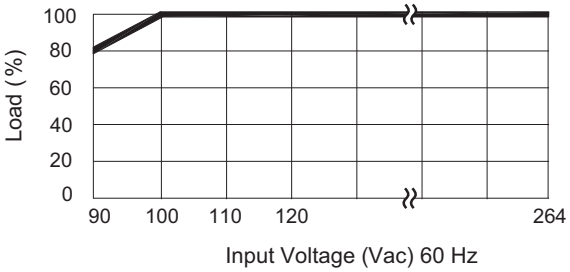


DERATING CURVE

Output power vs. Ambient temperature



Output power vs. Input Voltage



ACTIVE DC SIGNAL - RELAY CONTACT

Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drops below 90%
Contact Ratings (MAX)	30 V / 1 A resistive load

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REVISION HISTORY

rev.	description	date
1.0	initial release	06/03/2010
1.01	new template applied	08/19/2011
1.02	V-Infinity branding removed	08/23/2012

The revision history provided is for informational purposes only and is believed to be accurate.

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