

SERIES: VSUP-1K2 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

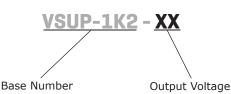
- up to 1,200 W continuous power
- universal input (110~264 Vac)
- single output from $9{\sim}60$ V
- programmable output voltage
- active power correction (98%)
- current sharing capable
- power good, remote sense, remote on/off control
- built-in DC fan
- over load, over voltage, over temperature, and short circuit protections
- UL and TUV safety approvals
- efficiency up to 90%

MODEL	output voltage¹	output current	output power	ripple and noise ²	efficiency
	(Vdc)	max (A)	(W)	max (mVp-p)	typ (%)
VSUP-1K2-09	9	133	1,200	90	83
VSUP-1K2-12	12	100	1,200	120	84
VSUP-1K2-15	15	80	1,200	150	85
VSUP-1K2-18	18	66.6	1,200	150	85
VSUP-1K2-24	24	50	1,200	150	88
VSUP-1K2-30	30	40	1,200	150	88
VSUP-1K2-36	36	33.3	1,200	150	88
VSUP-1K2-48	48	24	1,200	150	89
VSUP-1K2-60	60	20	1,200	150	90

Notes: 1. output voltage is measured at output power connector

2. ripple and noise is measured from 10 KHz to 20 MHz at output terminals with 0.1 µF ceramic capacitor and a 22 µF electrolytic capacitor in parallel

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage	9V 12, 15, 18, 24, 30, 36, 48, 60	180 110		264 264	Vac VAc
frequency		47		63	Hz
current	at 115 Vac at 230 Vac		14 7		A A
inrush current	at 230 Vac, cold start		120		А
power factor correction	at 230 Vac, full load		0.98		

OUTPUT

parameter	conditions/description	min	typ	max	units
temperature coefficient	0 ~ 50°C		±0.04		%/°C
hold-up time	230 Vac at full load			12	ms
adjustability	adjustable with built-in trim pot		±5		%
programming	output voltage programmable through externa $1 \sim 5$ V control voltage on VCI.	l 20		100	%
remote sense	Designated as (VS+) and (VS-). Total voltage output.	compensation fror	n cable losses	with respect	to the main
remote inhibit	Designated as (INH), requires a low signal to i	nhibit the output.			
current sharing	Designated as (PAR), use in parallel for forced	current sharing fu	nction.		

PROTECTION

parameter	conditions/description	min	typ	max	units
over voltage protection	variable "OVP" follows adjustable DC output	110		135	%
over current protection ¹	current limiting 3 times with auto recovery before shutdown				
Notes: 1 Protection mode sends	a pulse, waits 1.5 seconds, sends second pulse, waits 3 seconds, sends thir	rd nulsa junita E aa	aanda Tfawarlaa	d is still present t	ha unit will

Notes: 1. Protection mode sends a pulse, waits 1.5 seconds, sends second pulse, waits 3 seconds, sends third pulse, waits 5 seconds. If overload is still present, the unit will shutdown.

SAFETY & COMPLIANCE

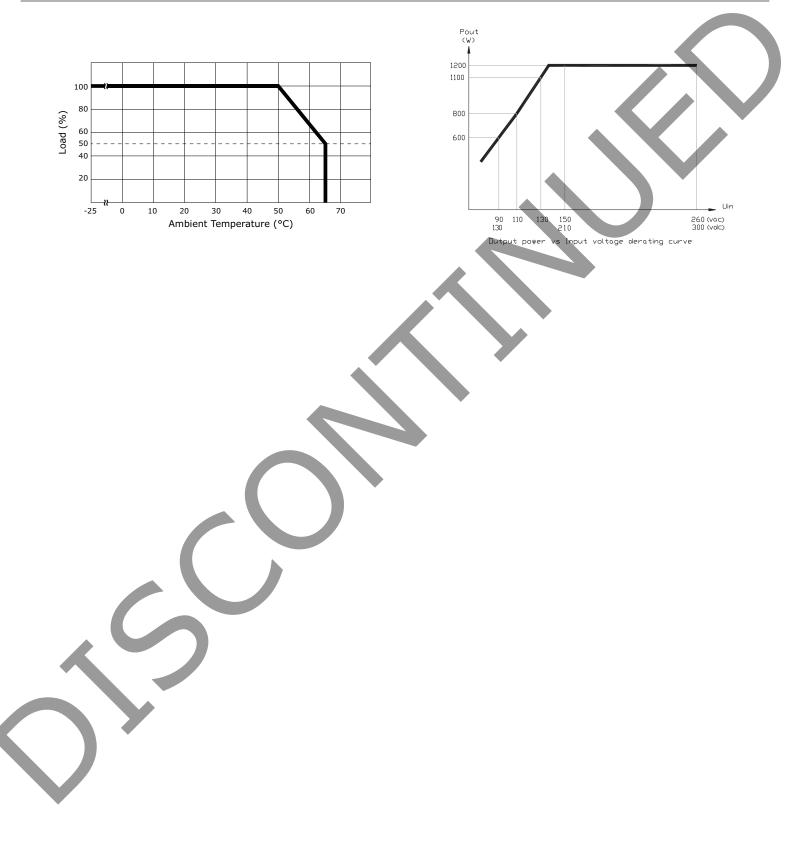
parameter	conditions/description	min	typ	max	units
safety approvals	UL/cUL 1950, TUV EN 60950				
EMI/EMC	EN 55022, EN 61000-4-(2,3,4,5,6,8,11), EN	1 61000-3-(2,3), ENV	50204		
leakage current	at 240 Vac			7.0	mA
RoHS compliant	Ves				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-20		85	°C
operating humidity		20		90	%
storage humidity		10		95	%
vibration	for 60 minutes, each axis	10		200	Hz

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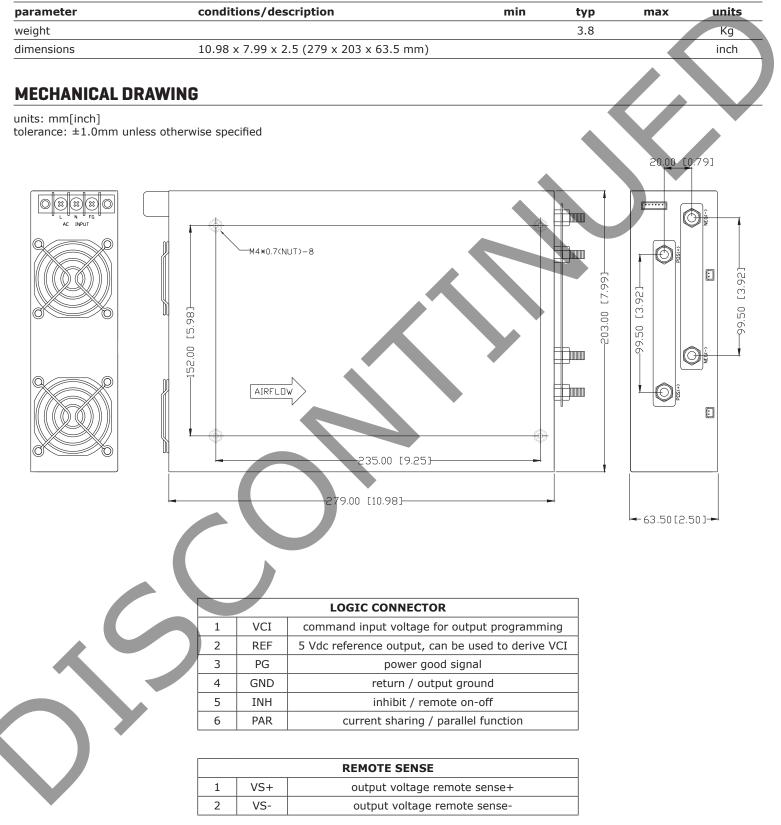
DERATING CURVES



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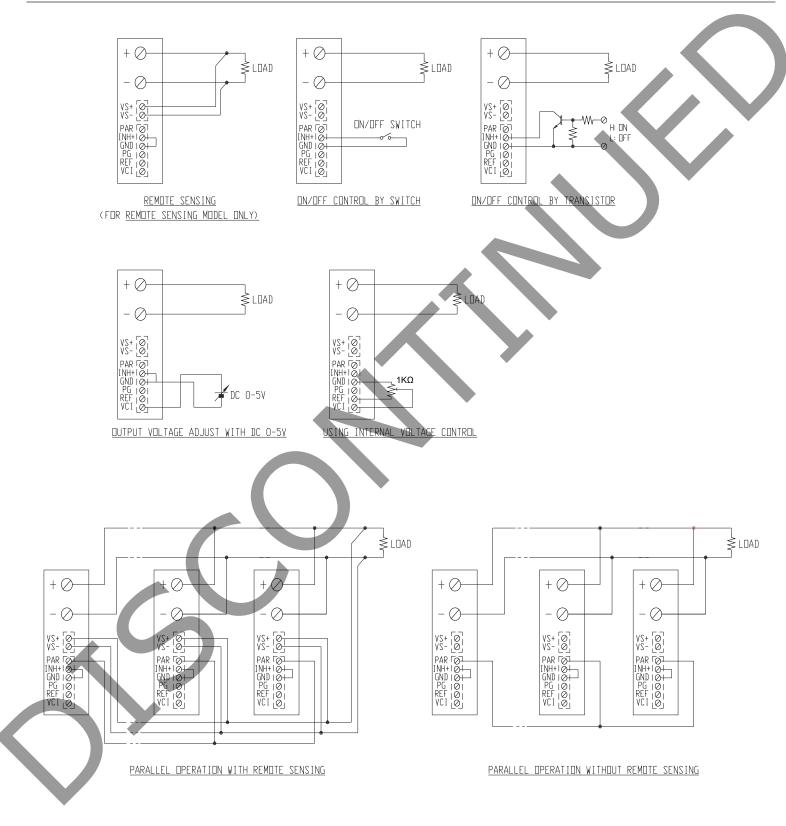
MECHANICAL

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LOGIC CONNECTIONS

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REVISION HISTORY

rev.	description	date
1.0	initial release	02/07/2007
1.01	new template applied, V-Infinity branding removed	08/28/2012
	The revision history provided is for informational purposes only and is believed to be acc	curate.

CUIINC[®]

Headquarters 20050 SW 112th Ave. Tualatin, OR 97062 800.275.4899

Fax 503.612.2383 cui.com techsupport@cui.com

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