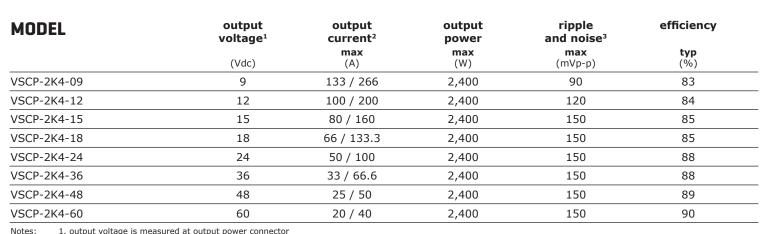


#### SERIES: VSCP-2K4 **DESCRIPTION:** AC-DC POWER SUPPLY

#### **FEATURES**

- up to 2,400 W continuous power
- universal input (90~260 Vac / 130~370 Vdc)
- single output from 9~60 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%

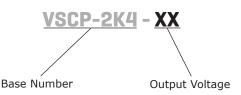




1. output voltage is measured at output power connector

2. maximum current is measured at 100~120 V input / 200~240 V input 3. 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		90 130		260 370	Vac Vdc
frequency		47		63	Hz
current	at 230 Vac		13.5		А
inrush current			180		А
power factor correction	at 230 Vac, full load		0.98		

## OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation				±1	%
load regulation				±1	%
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	-8		+3	%
programming	output voltage programmable through external $1 \sim 5$ V control voltage on VCI. Control voltage can also be obtained from VCO via a 470 K $\Omega$ pot. see application diagrams	25		100	%
remote sense	Designated as (VS+) and (VS-). Total voltage comp output.	ensation fro	m cable losses	with respect	t to the main
remote inhibit	Designated as (INH), requires a low signal to inhibit the output.				
current sharing	Designated as (PAR), use in parallel for forced current sharing function.				

## PROTECTION

parameter	conditions/description	min	typ	max	units
over voltage protection		110		135	%
over current protection <sup>1</sup>	current limiting 3 times with auto recovery before shutdown	115		130	%

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	TUV EN 60950, UL/cUL 1950				
EMI/EMC	EN 55022, EN 61000-4-(2,3,4,5,6,8,11), EN 6	1000-3-(2,3), ENV	50204		
leakage current	at 240 Vac			10.5	mA
RoHS compliant	yes				

#### **ENVIRONMENTAL**

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parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	0		65	°C
storage temperature		-20		85	°C
operating humidity		20		90	%
storage humidity		10		95	%
vibration	10~200Hz, 10min/cycle, 60 min for each axis			2	G

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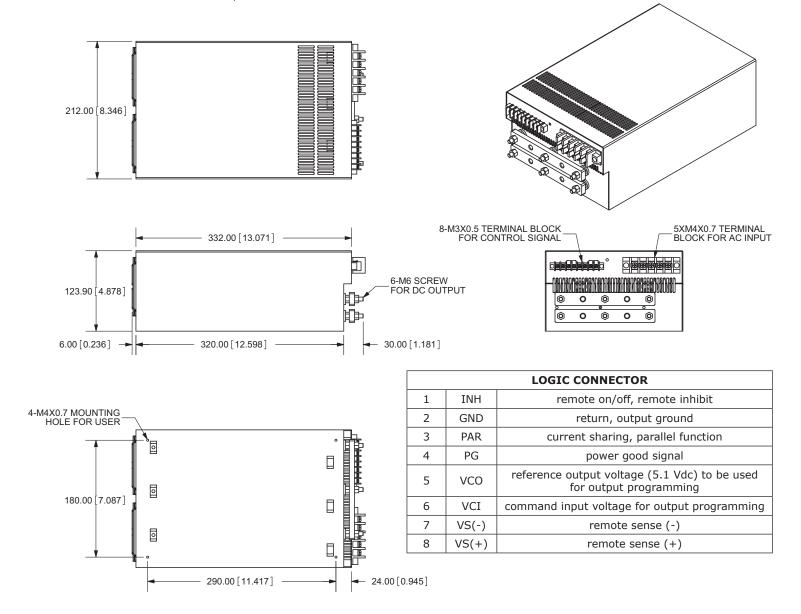
#### MECHANICAL

parameter	conditions/description	min	typ	max	units
weight			8.9		Kg
dimensions	332 x 212 x 123.9 (13.071 x 8.346 x 4.878 mm)				inch

# **MECHANICAL DRAWING**

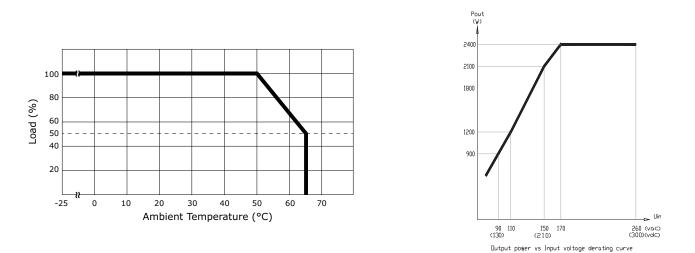
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units: mm[inch] tolerance: ±1.0mm unless otherwise specified

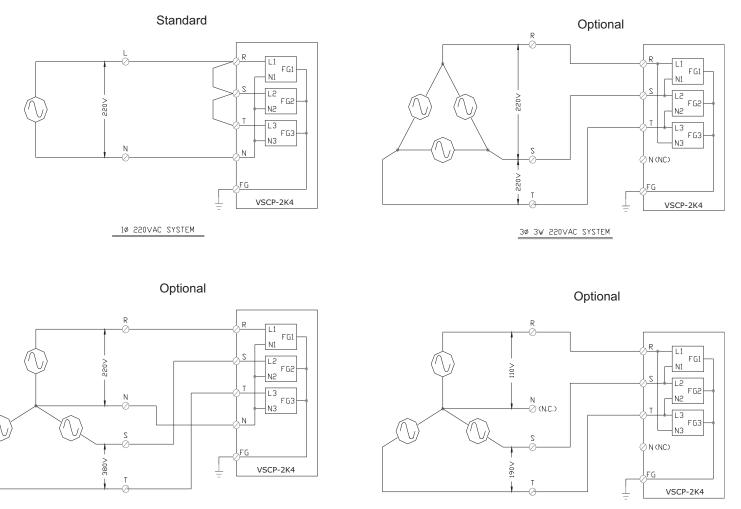


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# **DERATING CURVES**



# WIRING CONFIGURATIONS



304W 220/380VAC SYSTEM

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304W 110/190VAC SYSTEM

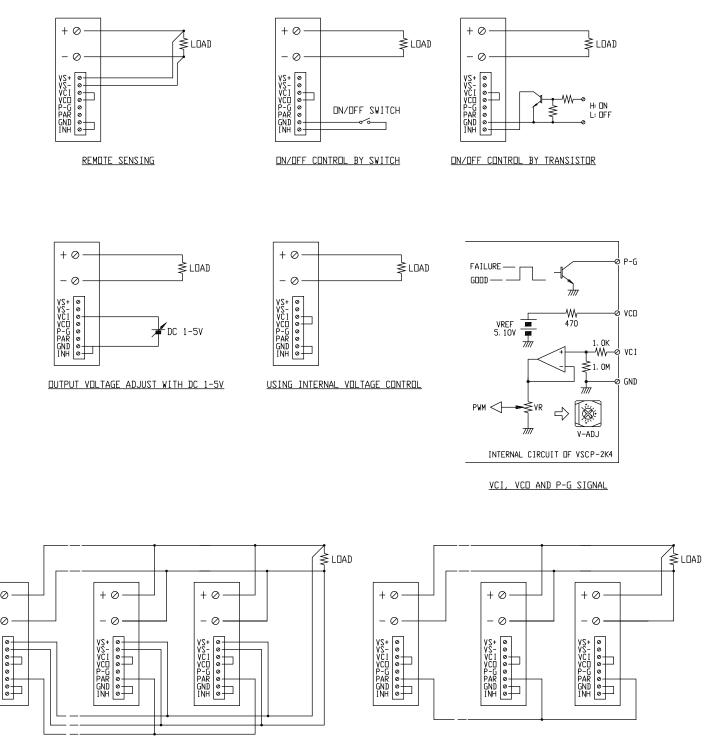
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# **LOGIC CONNECTIONS**

+ 0

- 0

VS+ VCI VCU P-G PAR GND INH



PARALLEL OPERATION WITH REMOTE SENSING

PARALLEL OPERATION WITHOUT REMOTE SENSING

### **REVISION HISTORY**

rev.	description	date
1.0	initial release	08/20/2007
1.01	applied new spec template	08/07/2008
1.02	applied new spec template, corrected over current protection	09/26/2011
1.03	spec updated	02/13/2012
1.04	V-Infinity branding removed	08/28/2012

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



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.