

08/28/2012

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SERIES: VSCP-2KO | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

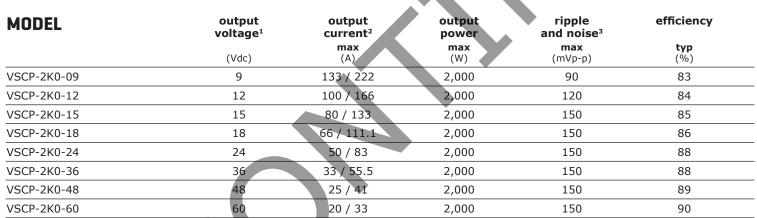
- up to 2,000 W continuous power
- universal input (90~260 Vac / 130~370 Vdc)
- single output from 9~60 V
- programmable output voltage
- active power correction (98%)
- current sharing capable
- power good, remote sense, remote on/off control
- built-in DC fan
- over load, over voltage, over temperature, and short circuit protections
- UL and TUV safety approvals
- efficiency up to 90%







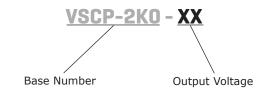




Notes:

1. output voltage is measured at output power connector 2. maximum current is measured at $100 \sim 120$ V input / $200 \sim 240$ V input 3. ripple and noise is measured from 10 KHz to 20 MHz at output terminals with 0.1 μ F ceramic capacitor and a 22 μ F 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		11.5		А
inrush current	peak measured at 230 Vac, cold start		180		A
power factor correction	at 230 Vac, full load		0.98		

OUTPUT

±0.02	12 +3	%/°C ms %
	+3	%
uale automal		
ntrol voltage	100	%
otal voltage compensation from cable losse	s with respect	to the main
w signal to inhibit the output.		
el for forced current sharing function.		
ia T	a a 4/0 KΩ pot.	Total voltage compensation from cable losses with respect ow signal to inhibit the output.

PROTECTION

parameter	conditions/description	min	typ	max	units
over voltage protection		110		135	%
over current protection¹ current limiting 3 times with auto recovery before shutdown					

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. Notes:

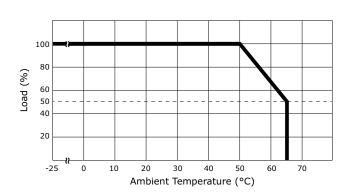
SAFETY & COMPLIANCE

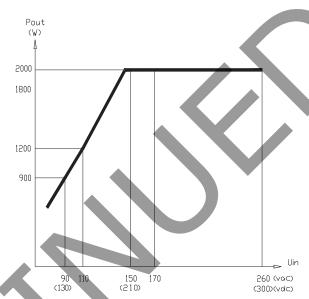
parameter	conditions/description	min	typ	max	units
safety approvals	UL/cUL 1950, TUV EN60950				
EMI/EMC	EN 55022, EN 61000-4-(2,3,4,5,6,8,11), EN	61000-3-(2,3), ENV	50204		
leakage current	at 240 Vac			10.5	mA
RoHS compliant	yes				

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

DERATING CURVES





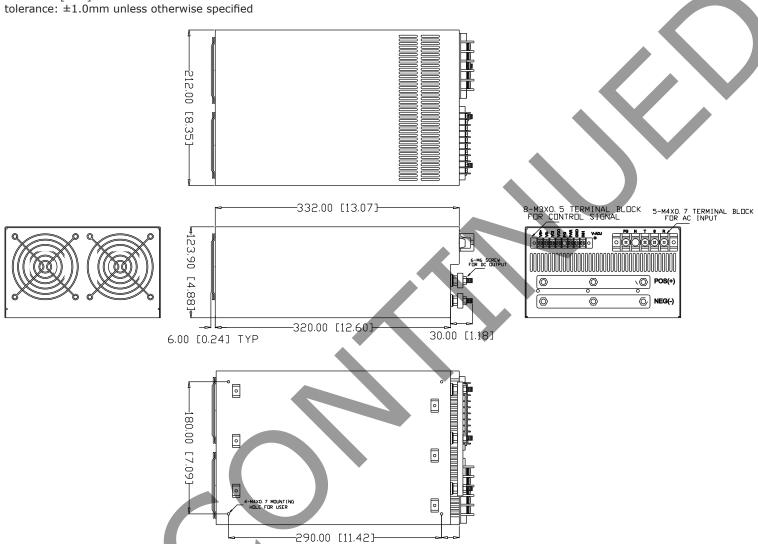
Output power vs Input voltage derating curve

MECHANICAL

parameter	conditions/description	min	typ	max	units
weight			8.9		Kg
dimensions	13.07 x 8.35 x 4.88 (332 x 212 x 123.9 mm)				inch

MECHANICAL DRAWING

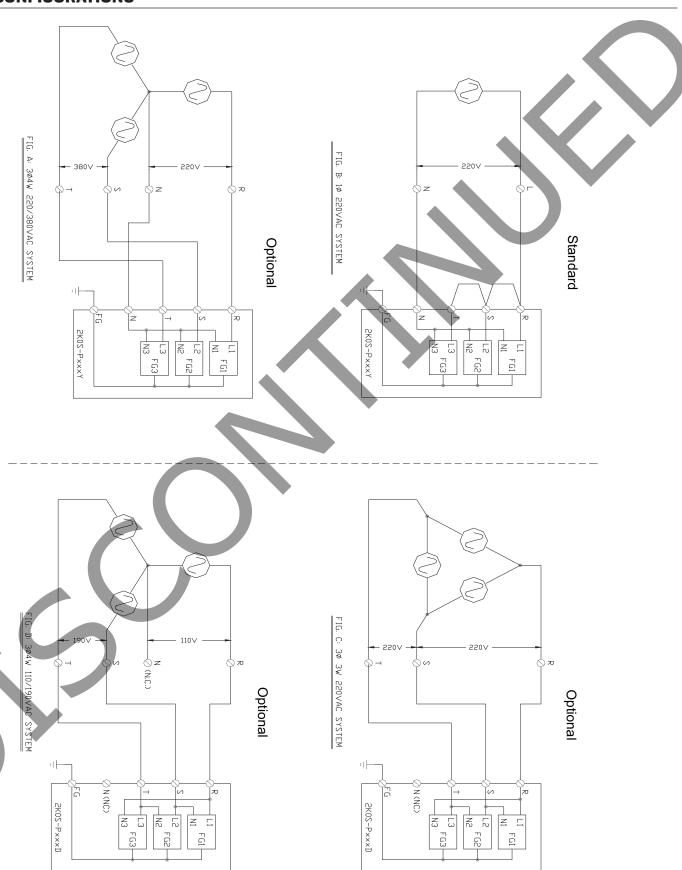
units: mm[inch]



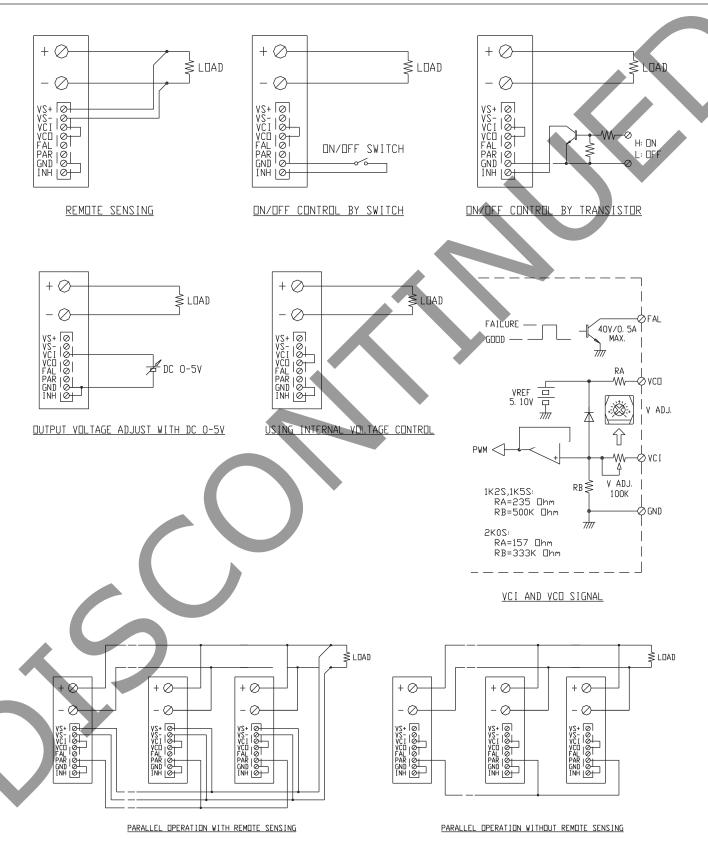
LOGIC CONNECTOR					
1	VS+	output voltage remote sense+			
2	VS-	output voltage remote sense-			
3	VCI	command input voltage for output programming			
4	VCO	5.1V Vdc reference for output programming			
5	PG	power good signal			
6	PAR	current sharing / parallel function			
7	GND	return / output ground			
8	INH	inhibit / remote on-off			

24.00 [0.94]

WIRING CONFIGURATIONS



LOGIC CONNECTIONS



REVISION HISTORY

rev.	description	date
1.0	initial release	07/12/2006
1.01	new template applied	08/07/2008
1.02	V-Infinity branding removed	08/28/2012

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



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

Fax 503.612.2383 cui.com techsupport@cui.com

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

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