

SERIES: VSCP-2K0 | 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%

MODEL	output voltage ¹	output current ²	output power	ripple and noise ³	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VSCP-2K0-09	9	133 / 222	2,000	90	83
VSCP-2K0-12	12	100 / 166	2,000	120	84
VSCP-2K0-15	15	80 / 133	2,000	150	85
VSCP-2K0-18	18	66 / 111.1	2,000	150	86
VSCP-2K0-24	24	50 / 83	2,000	150	88
VSCP-2K0-36	36	33 / 55.5	2,000	150	88
VSCP-2K0-48	48	25 / 41	2,000	150	89
VSCP-2K0-60	60	20 / 33	2,000	150	90

Notes:

output voltage is measured at output power connector
maximum current is measured at 100 ~ 120 V input / 200 ~ 240 V input
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

VSCP-2K0 - **XX** Base Number **Output Voltage**

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		A
inrush current	peak measured at 230 Vac, cold start		180		A
power factor correction	at 230 Vac, full load		0.98		
OUTPUT					

OUTPUT

parameter	conditions/description	min	typ	max	units
temperature coefficient	0 ~ 50°C		±0.02		%/°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 Ω pot. see application diagrams	25		100	%
remote sense	Designated as (VS+) and (VS-). Total voltage co output.	mpensation from	m cable losses	s with respect	to the main
remote inhibit	Designated as (INH), requires a low signal to inhi	bit the output.			
current sharing	Designated as (PAR), use in parallel for forced cu	rrent sharing fu	nction.		

PROTECTION

parameter	conditions/description	min	typ	max	units
over voltage protection		110		135	%
over current protection ¹ current limiting 3 times with auto recovery before shutdown					
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 Protection mode sends a pulse, waits 1.5 shutdown. Notes: onds, sends second pulse, waits 3 seconds, sends third pulse, waits 5 seconds. If overload is still present, the unit will

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), ENV50204					
leakage current	at 240 Vac			10.5	mA
RoHS compliant	yes				

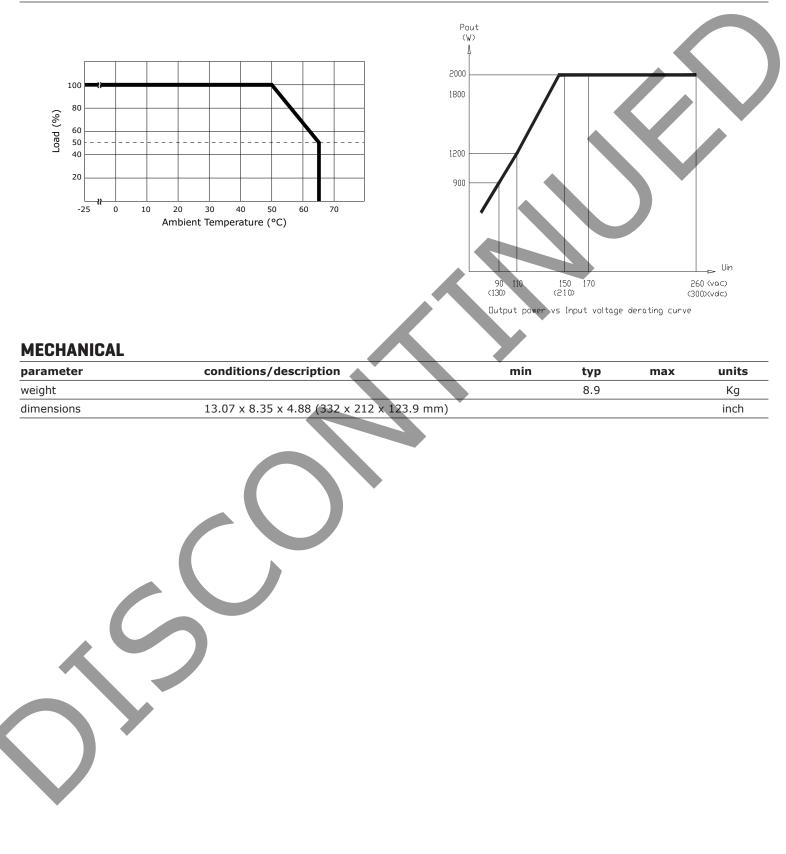
ENVIRONMENTAL

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

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DERATING CURVES

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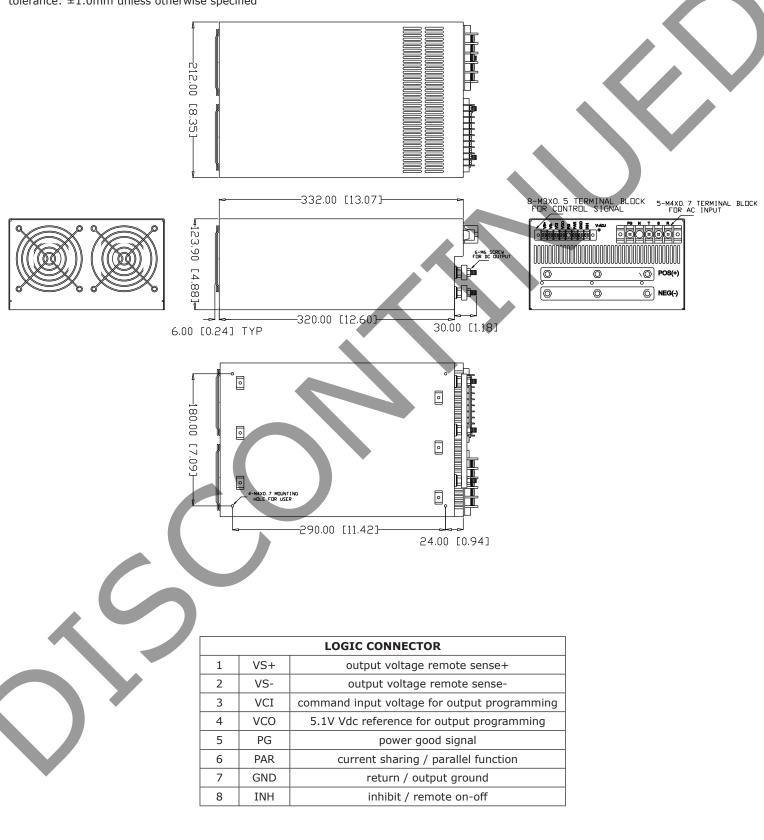
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MECHANICAL DRAWING

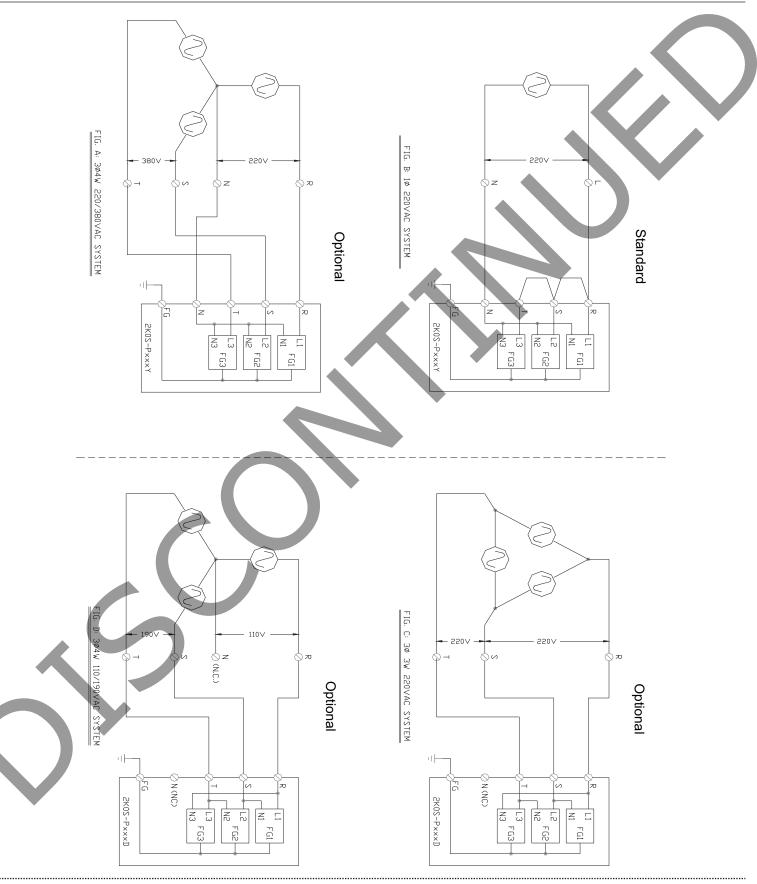


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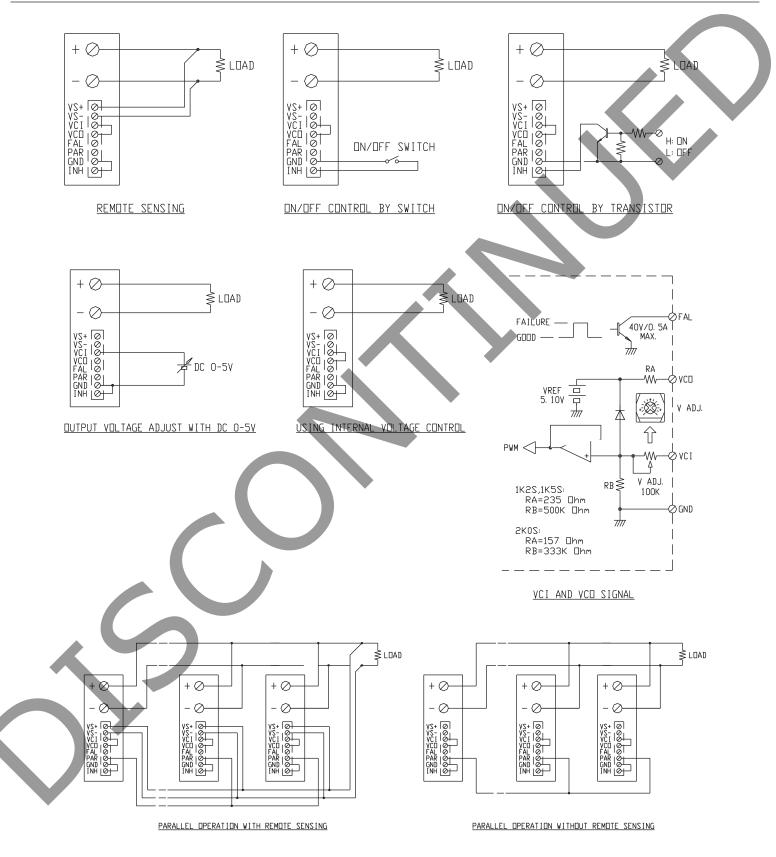


WIRING CONFIGURATIONS



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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.



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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.