

08/28/2012

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SERIES: VSCP-1K5 | DESCRIPTION: AC-DC POWER SUPPLY

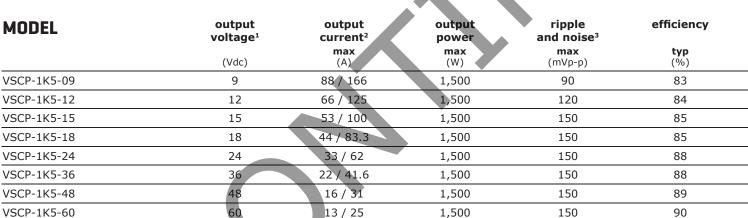
FEATURES

- up to 1,500 W continuous power
- universal input (90~260 Vac / 130~370 Vdc)
- single output from 9~60 V
- programmable output voltage
- power factor 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%





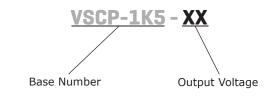




Notes:

- 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





parameter	conditions/description	min	typ	max	units
voltage		90 130		260 370	Vac Vdc
frequency		47		63	Hz
current	at 230 Vac		9		А
inrush current	peak measured at 230 Vac, cold start		120		A
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	-12	+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 cab	le losses 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 cur	rent sharing function	l.	

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				

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:

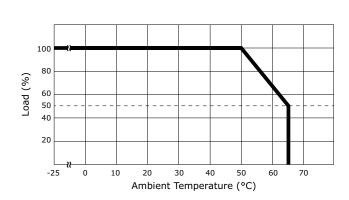
SAFETY & COMPLIANCE

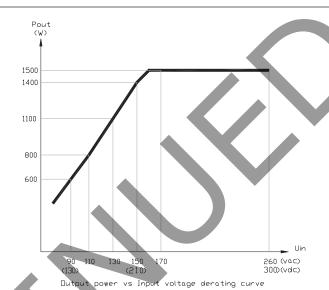
parameter	conditions/description	min	typ	max	units
safety approvals	TUV EN 60950, UL/cUL 1950				
EMI/EMC	EN 55022, EN 61000-4-(2,3,4,5,6,8,11), EN 61000-	3-(2,3), ENV	50204		
leakage current	at 240 Vac			7.0	mA
RoHS compliant	yes				

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





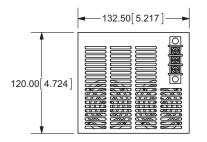
MECHANICAL

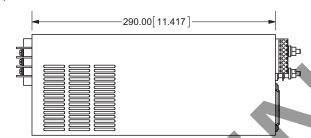
parameter	conditions/description	min	typ	max	units
weight			4.5		Kg
dimensions	11.42 x 4.72 x 5.22 (290 x 120 x 132.5 mm)				inch

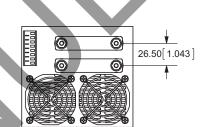
MECHANICAL DRAWING

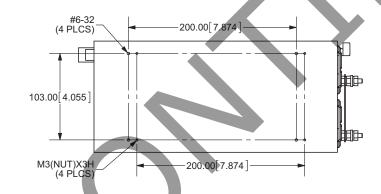
units: mm[inch]

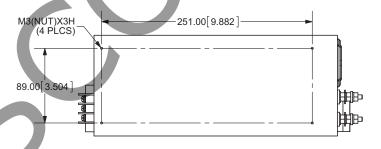
tolerance: ±1.0mm unless otherwise specified





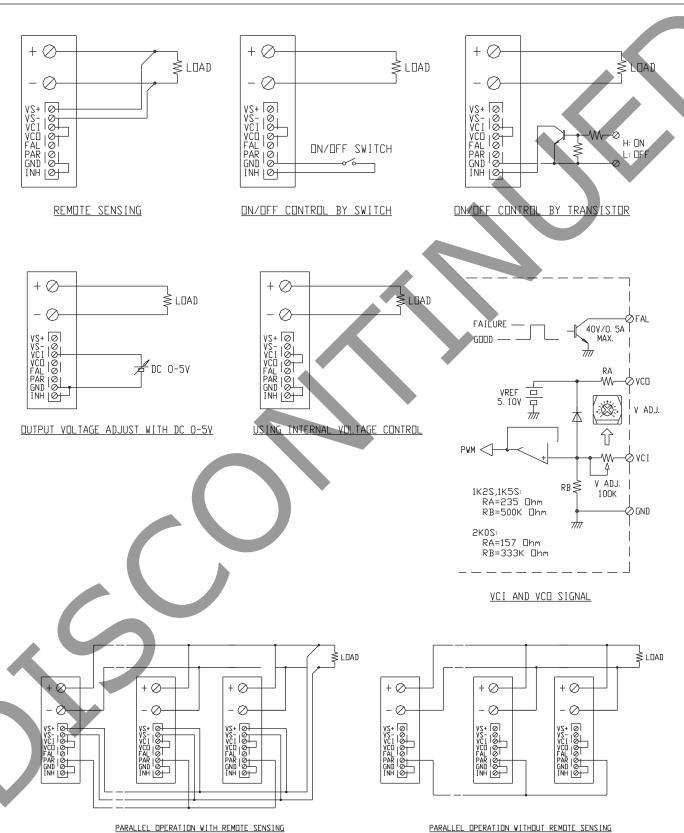






	LOGIC CONNECTOR				
1	VS+	output voltage remote sense+			
2	VS-	output voltage remote sense-			
3	VCI	command input voltage for output programming			
4	VCO	5~10 Vdc reference for output programming			
5	FAL	power failure detected			
6	PG	power good signal			
7	PAR	current sharing / parallel function			
8	GND	return / output ground			
9	INH	inhibit / remote on-off			

LOGIC CONNECTIONS



REVISION HISTORY

rev.	description	date
1.0	initial release	08/20/2007
1.01	new template applied	12/22/2011
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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