

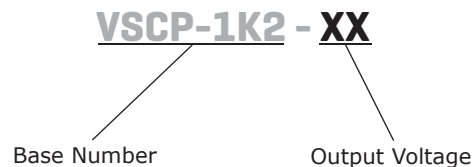
SERIES: VSCP-1K2 | DESCRIPTION: AC-DC POWER SUPPLY
FEATURES

- up to 1,200 W continuous power
- universal input (90~260 Vac / 130~370 Vdc)
- single output from 5~60 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-1K2-05	5	160 / 200	1,000	50	78
VSCP-1K2-09	9	88 / 133	1,200	90	83
VSCP-1K2-12	12	66 / 100	1,200	120	84
VSCP-1K2-15	15	53 / 80	1,200	150	85
VSCP-1K2-18	18	44 / 66.6	1,200	150	85
VSCP-1K2-24	24	33 / 50	1,200	150	88
VSCP-1K2-36	36	22 / 33.3	1,200	150	88
VSCP-1K2-48	48	16 / 24	1,200	150	89
VSCP-1K2-60	60	13 / 20	1,200	150	90

Notes: 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 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		260	Vac
		130		370	Vdc
frequency		47		63	Hz
current	at 230 Vac		7		A
inrush current	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	at 230 Vac, full load			12	ms
adjustability	adjustable with built-in trim pot	-12		+3	%
programming	output voltage programmable through external 1 ~ 5 V control voltage on VCI. Control voltage can also be obtained from VCO via a 470 KΩ pot. see application diagrams	25		100	%
remote sense	Designated as (VS+) and (VS-). Total voltage compensation from cable losses with respect to the main output.				
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 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 third pulse, waits 5 seconds. If overload is still present, the unit will shutdown.

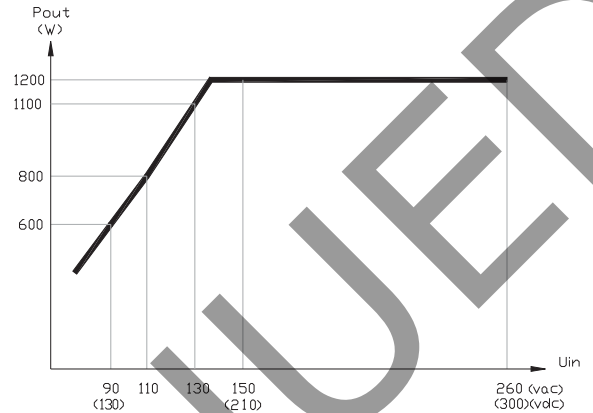
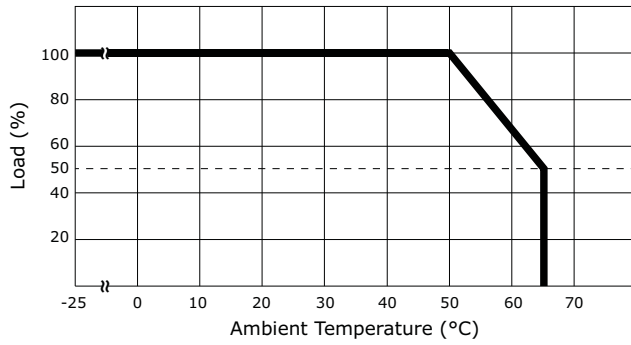
SAFETY & COMPLIANCE

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 61000-3-(2,3), ENV50204				
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



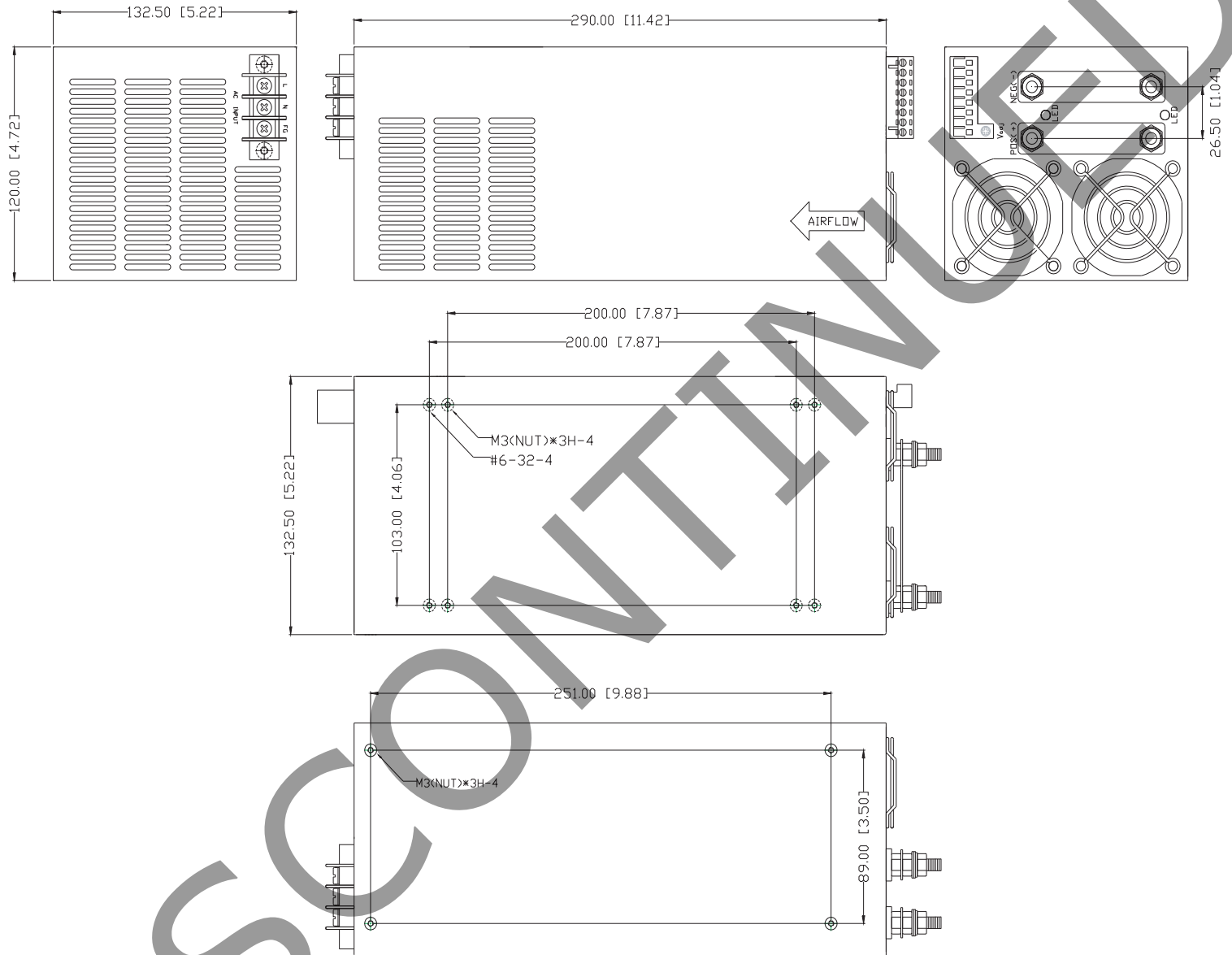
Output power vs Input voltage derating curve

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: $\pm 1.0\text{mm}$ 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

REVISION HISTORY

rev.	description	date
1.0	initial release	06/28/2006
1.01	new template applied	08/20/2011
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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