



Features

- Current Sharing capability
- 0.98 Typical Power Factor
- Programmable Output Voltage
- Universal AC Input
- Short Circuit, overload, over voltage, over temperature protected
- Forced air cooling by built-in DC fan
- Power Failure Signal
- Built-in Remote Sense
- Built-in Remote Inhibit
- 2 year warranty



Model	Output ¹	Output Current		Max. Power	Regulation	Ripple & Noise ³		Efficiency
		Minimum	Maximum ²			(Vpp)		
VSCP-1K2-05	5 V	0 A	160/200 A	1000 W	<1%	1%	78%	
VSCP-1K2-09	9 V	0 A	88/133 A	1200 W	<1%	1%	83%	
VSCP-1K2-12	12 V	0 A	66/100 A	1200 W	<1%	1%	84%	
VSCP-1K2-15	15 V	0 A	53/80 A	1200 W	<1%	1%	85%	
VSCP-1K2-18	18 V	0 A	44/66.6 A	1200 W	<1%	1%	85%	
VSCP-1K2-24	24 V	0 A	33/50 A	1200 W	<1%	1%	88%	
VSCP-1K2-36	36 V	0 A	22/33.3 A	1200 W	<1%	1%	88%	
VSCP-1K2-48	48 V	0 A	16/24 A	1200 W	<1%	1%	89%	
VSCP-1K2-60	60 V	0 A	13/20 A	1200 W	<1%	1%	90%	

Notes:

1 Output voltage is measured at output power connector.

2 Maximum current is measured at 100-120V input / 200-240V 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.



Input

Parameter	Conditions/Description	Min	Nom	Max	Units
Input frequency		47		63	Hz
Input voltage	100~120 / 200~240 VAC (see derating curve) (130~185 / 260~370 VDC) (see derating curve)	100		240	VAC
Inrush Current	Peak measured at 230 VAC at full load, cold start	130		370	VDC
				120	A

Output

Parameter	Conditions/Description	Min	Nom	Max	Units
Hold-up time	Full load at 230 VAC			12	mS
Programming	Output voltage programmable through external 0~5V control voltage on VCI. Control voltage can also be obtained from VCO via a 470 KOhm pot. See application diagrams.	25		100	%
Voltage adjustability	Typical adjustment by potentiometer 25%-100% Adjustment by 1-5Vdc external control	-7.5		+7.5	%
Temp. coefficient			±0.04		%/°C

Protection Circuit

Parameter	Conditions/Description	Min	Nom	Max	Units
Overload	Current limiting 3 times (1.5", 3.0", 5.0"), then intelligent auto recovery before shutdown				
Overvoltage		110		135	%

General and Safety

Parameter	Conditions/Description	Min	Nom	Max	Units
Operating temp.		0		50	°C
Operating humid.		20%		90%	RH
Storage temp.		-20		85	°C
Storage humid		10		95	%
Vibration	Period of 60 min. for each axis	10		200	Hz
EMC	EN55022, EN610000-4-2,3,4,5,6,8,11, EN61000-3-2-3 ENV50204				
Safety regulation	UL/cUL 1950, TUV EN60950				
Leakage current	at 240 VAC			<7.0	mA
Cooling	Power rating and temperature controlled fan				

Mechanical

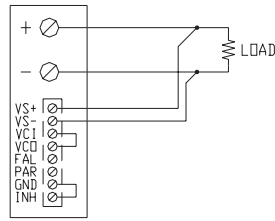
Parameter	Conditions/Description	Min	Nom	Max	Units
Weight			4.5		kg
Enclosure	290(L) x 120(W) x 132.5(H)				mm

Logic Connector

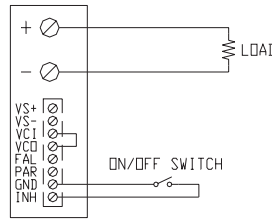
Parameter	Conditions/Description
Pin Assignments:	<ol style="list-style-type: none"> 1. INH - Remote On-Off / Remote Inhibit 2. GND - Return / Output Ground 3. PAR - Current Sharing / Parallel function 4. FAL - Failure 5. VCO - Reference output voltage (5-10 VDC) to be used for output programming 6. VCI - Command input voltage for output programming 7. VS(-) - Remote Sense (-) 8. VS(+) - Remote Sense (+)



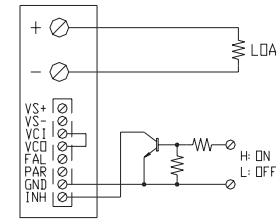
Logic Connections



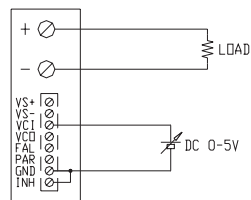
REMOTE SENSING



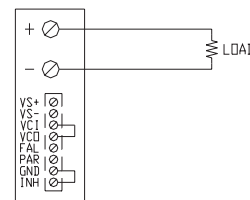
ON/OFF CONTROL BY SWITCH



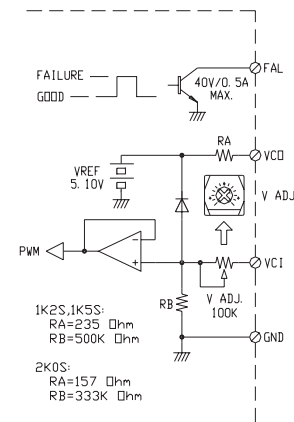
ON/OFF CONTROL BY TRANSISTOR



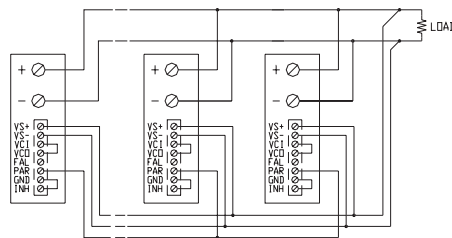
OUTPUT VOLTAGE ADJUST WITH DC 0-5V



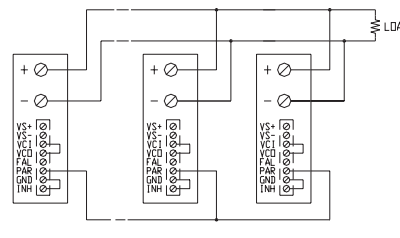
USING INTERNAL VOLTAGE CONTROL



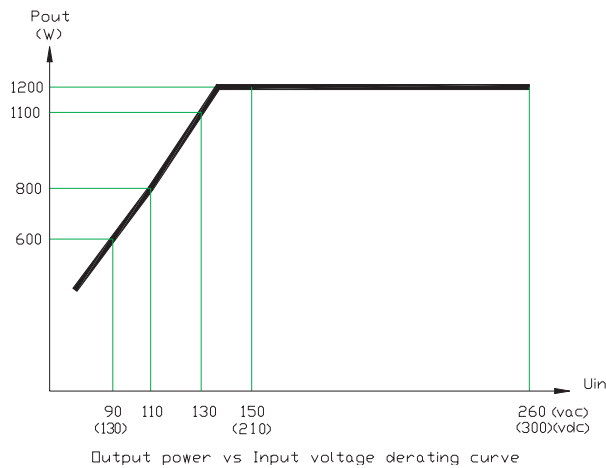
VCI AND VCD SIGNAL



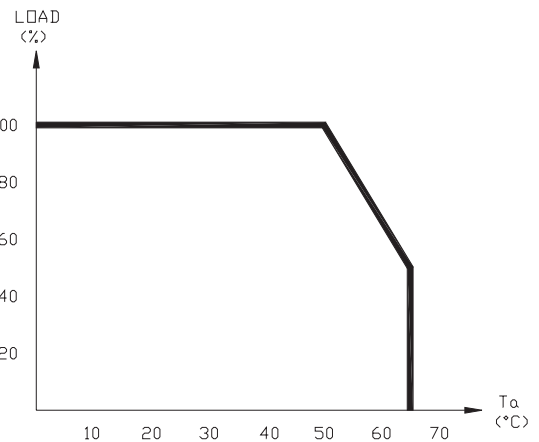
PARALLEL OPERATION WITH REMOTE SENSING



PARALLEL OPERATION WITHOUT REMOTE SENSING



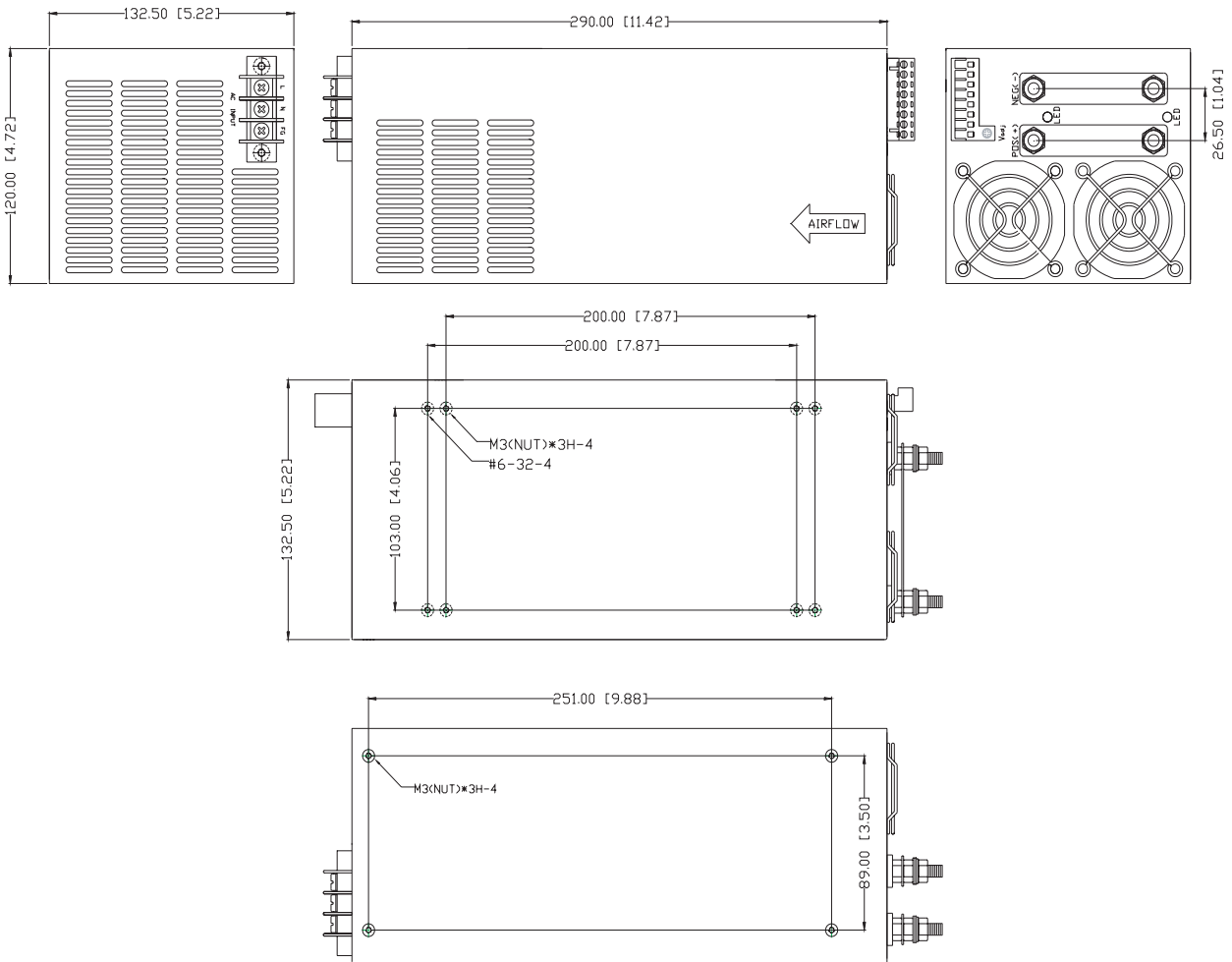
Output power vs Input voltage derating curve



Derating curve



Mechanical Drawing



CONTROL PIN ASSIGNMENT

VS+	Output Voltage Remote Sense+
VS -	Output Voltage Remote Sense -
VCI	Command input voltage for output programming
VCO	5-10 VDC reference for output programming
FAL	Power Failure detect
PG	Power Good Signal
PAR	Current Sharing / Parallel function
GND	Return / Output Ground
INH	Inhibit / Remote On-Off