



Features

- Current Sharing capability
- 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-600-05	5 V	0 A	80/100 A	500 W	<1%	1%	78%	
VSCP-600-09	9 V	0 A	44/66 A	600 W	<1%	1%	83%	
VSCP-600-12	12 V	0 A	33/50 A	600 W	<1%	1%	84%	
VSCP-600-15	15 V	0 A	26/40 A	600 W	<1%	1%	85%	
VSCP-600-18	18 V	0 A	22/33.3 A	600 W	<1%	1%	85%	
VSCP-600-24	24 V	0 A	16/25 A	600 W	<1%	1%	88%	
VSCP-600-36	36 V	0 A	11/16.6 A	600 W	<1%	1%	88%	
VSCP-600-48	48 V	0 A	8/12 A	600 W	<1%	1%	89%	
VSCP-600-60	60 V	0 A	6/10 A	600 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)	100		240	VAC
	(130~185 / 260~370) (VDC see derating curve)	130		370	VDC
Inrush Current	Peak measured at 230 VAC at full load, cold start			60	A
Input Current	at 230 VAC		3.5		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
Remote Sense	Designated as (VS+) and (VS-). Total voltage compensation for 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 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%	RH
EMC	EN55022, EN610000-4-2,3,4,5,6,8,11, EN61000-3-2-3 ENV50204				
Safety regulation	Approved to UL/cUL 1950, TUV EN60950				
Leakage current	at 240 VAC			3.5	mA

Mechanical

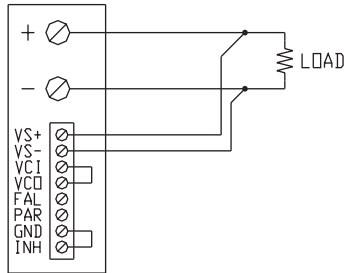
Parameter	Conditions/Description	Min	Nom	Max	Units
Weight			2.3		Kg
Enclosure	290(L) x 120(W) x 67.5(H)				mm

Logic Connector

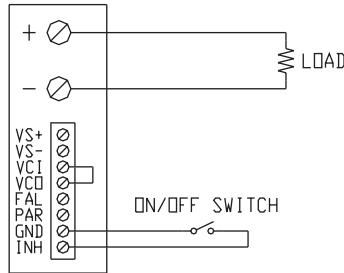
Parameter	Conditions/Description
Pin Assignments:	<ol style="list-style-type: none"> 1. INH - Remote On-Off / Remote Inhibit 2. GND - Return / Output Ground 3. PAR - Current Sharing / Parallel function 4. FAL - AC Fail Detect (must use 2KΩ pull up resistor) 5. VCO - Reference output voltage (5-10 VDC)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



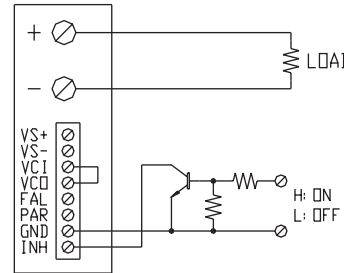
Logic Connections



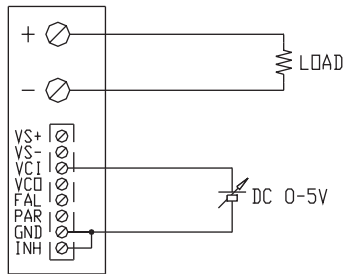
REMOTE SENSING



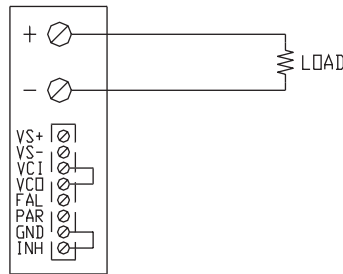
ON/OFF CONTROL BY SWITCH



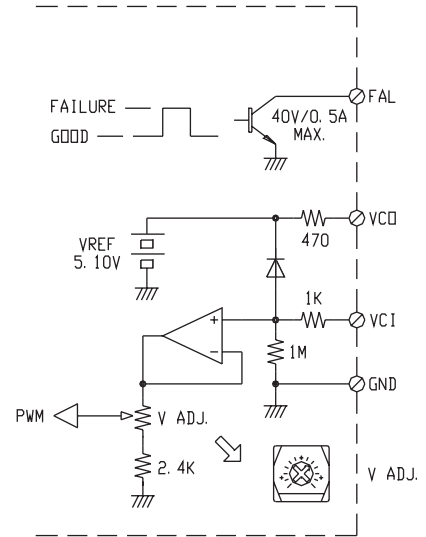
ON/OFF CONTROL BY TRANSISTOR



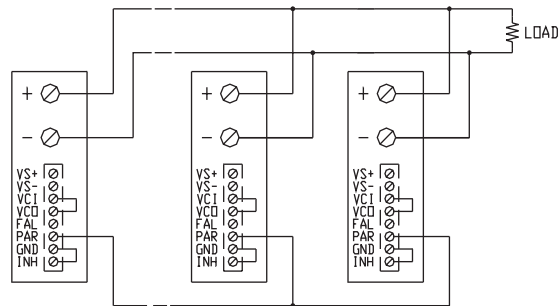
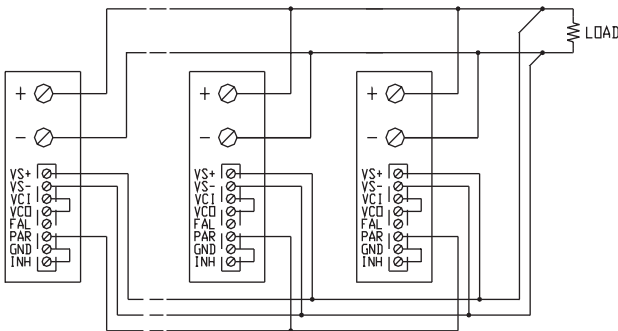
OUTPUT VOLTAGE ADJUST WITH DC 0-5V

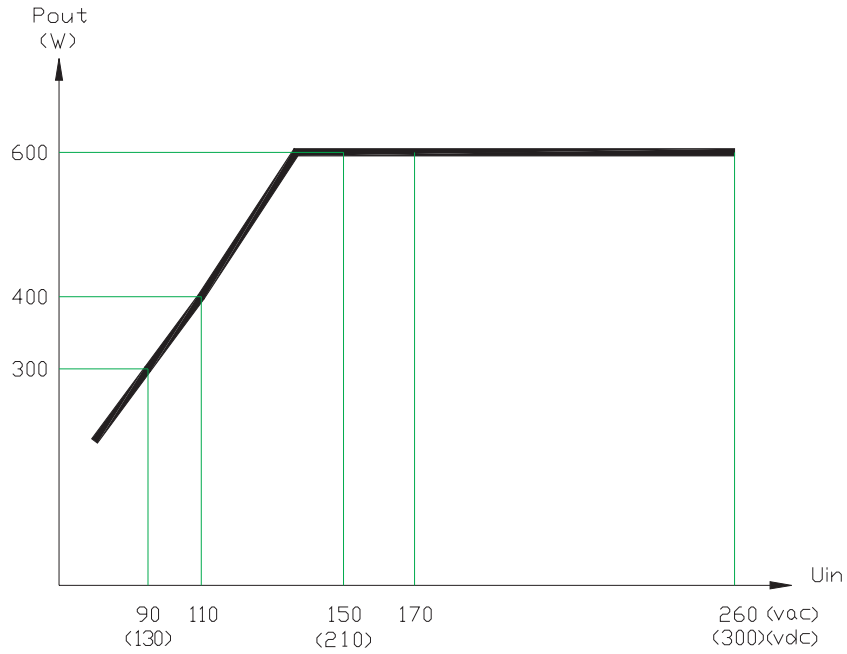


USING INTERNAL VOLTAGE CONTROL

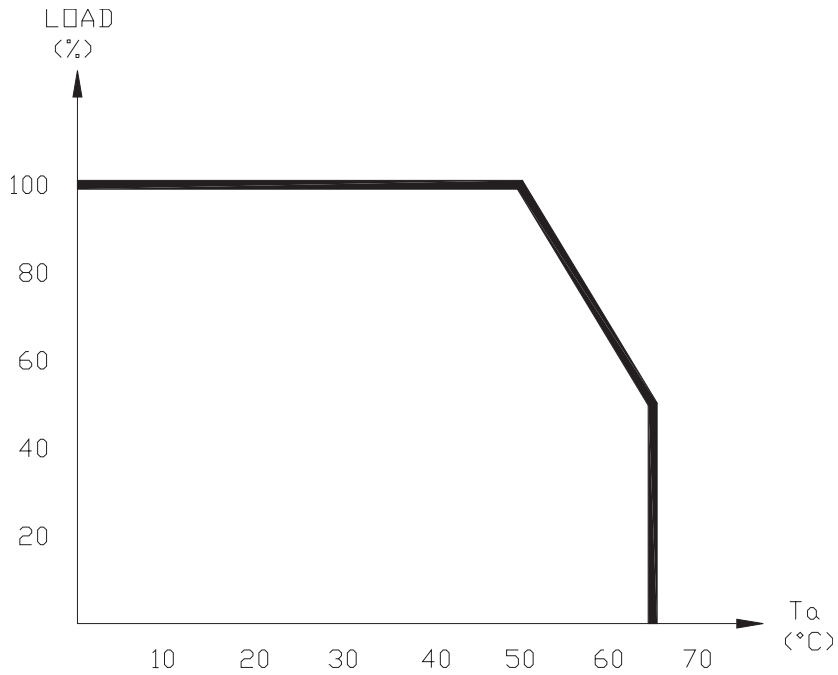


VCI AND VCO SIGNAL





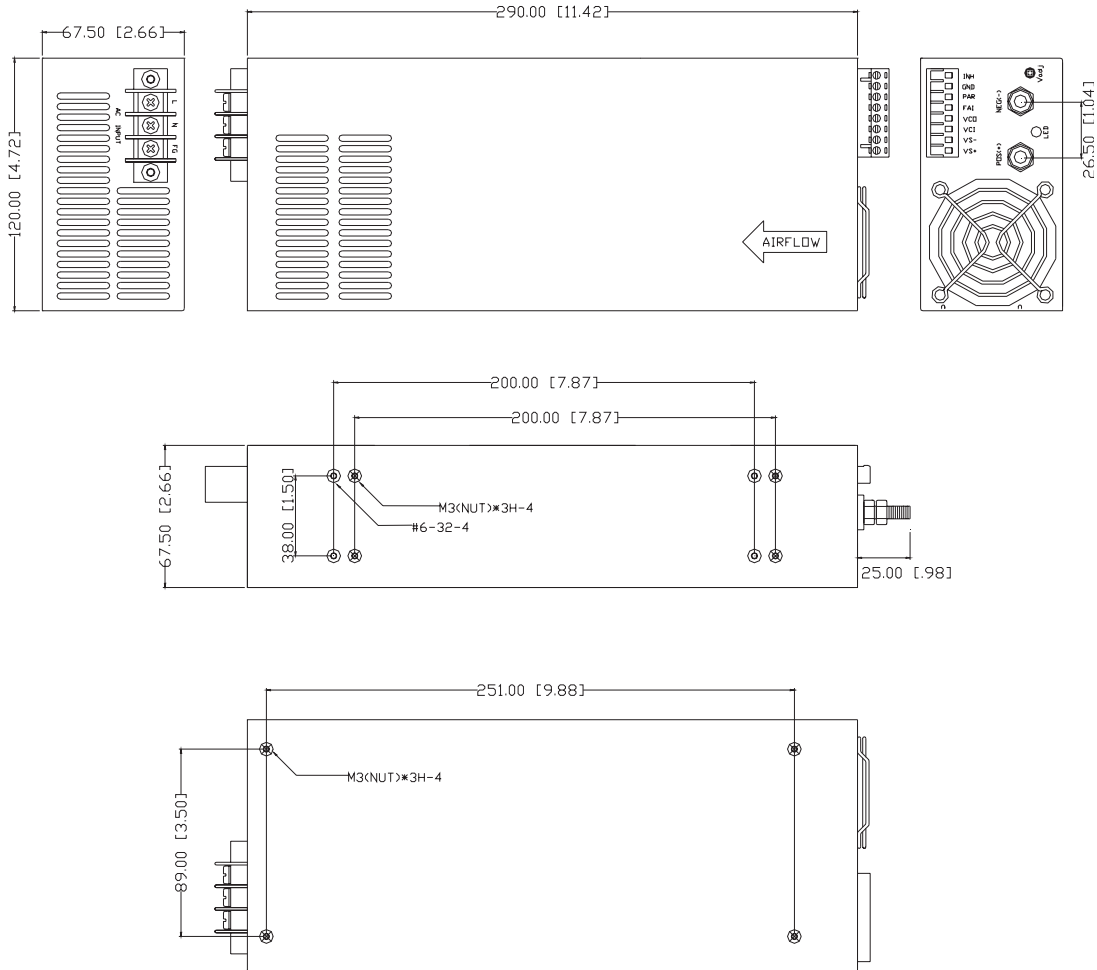
Output power vs Input voltage derating curve



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
PAR	Current Sharing / Parallel function
GND	Return / Output Ground
INH	Inhibit / Remote On-Off