

## Features

- ·Universal AC input / Full range
- ·Low leakage current <200µA
- ·Protections: Short circuit/Over load/Over voltage/
- ·Free air convection for rated power and 23.5 CFM
- forced aif convection for peak load
- ·UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- ·No load power consumption <0.75W
- ·Fixed switching frequency at 65KHz
- ·3 year warranty







Model	VRPS-75-3.3	VRPS-75-5	VRPS-75-12	VRPS-75-15	VRPS-75-24	VRPS-75-36	VRPS-75-48
DC output voltage	3.3V	5V	12V	15V	24V	36V	48V
Output V. Tolerance	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
Output rated current	15A	14A	6.3A	5A	3.2A	2.1A	1.6A
Output min. range	0A	0A	0A	0A	0A	0A	0A
Output max. range	20A	18.7A	8.3A	6.7A	4.2A	2.8A	2.1A
Peak load with 23.5 CFM fan	66W	94W	99.6W	100.5W	100.8W	100.8W	100.8W
Ripple & noise	80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p	300mVp-p
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±1.5%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
Efficiency	73%	78%	82%	83%	85%	86%	86%
DC voltage adj.	2.9~3.6V	4.75~5.5V	11.4~13.2V	13.5~16.5V	22.8~27.6V	34.2~39.6V	45.6~52.8V
Input voltage range	90~264Vac; 127-370Vdc						
AC Input current	1.5A/115Vac; 1A/230Vac						
Inrush current	cold start 25A/115Vac, 50A/230Vac						
Leakage current	Earth leakage current <200µA/264Vac, Patient leakage current <100µA/264Vac						
Overload protection	140%-180%						
	type: Hiccup mode, recovers automatically after fault condition is removed						
Over voltage protection	3.8~4.46V	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	41.4~48.6V	55.2~64.8V
	type: Shut down o/p voltage, re-power to recover						
Temperature coefficient	±0.03% / °C (	0~45°C)					
Set up, rise, hold up time	500ms, 30ms/230Vac 500ms, 30ms/115VAC at full load						
Vibration	10~500Hz, 2G 10min./1 cycle (1 hour each axes)						
Withstand voltage	I/P-O/P: 4KVAC, I/P-FG: 1.5KVAC, O/P-FG: 1.5KVAC						
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100M Ohms min.						
Working temp., humidity	-20°C~+70°C	(refer to output	derating curve)	, 20%-90% RH			
Storage temp., humidity	-40°C~+85°C, 10%-95% RH						
Dimensions	5x3x1.2 inches (127x76.2x31 mm)						
Weight	0.5 lbs (0.23Kg); 63pcs/ 34.2lbs (15.5Kg)/ 1.358CUFT						
MTBF	446.8Khrs/min at full load 25°C MIL-HDBK-217F						
Safety standards	Medical: UL60	0601-1, TUV EN	60601-1 approv	ed			
EMC standards	CISPR11 (EN	55011), CISPR2	2 (EN55022) cla	ass B, EN61000	-3-2,3, EN61000	)-4,2,3,4,5,6,8,1	1,
	ENV50204, EN55024, EN61204-3 (Heavy Industrial and Medical level, criteria A). EN60601-1-2 verification						

Notes:

1. All parameters NOT specifically mentioned are measured at 230Vac input, rated load, 25°C ambient

2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1  $\mu$ F & 47  $\mu$ F capacitor

3. Tolerance includes set up tolerance, line regulation, load regulation

4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

5. Length of setup time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the setup time.

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## **Dimensions (mm)**



AC Input Connector (CN1): JSTB3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N			
2	No Pin	or equivalent	JS1SVH-21-1P1.1	
3	AC/L	or oquivaloni	e. equivalent	

DC Output Connector (CN2): JSTB8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3,4	+V	JST VHR	JSTSVH-21-TP1.1
5,6,7,8	-V	or equivalent	or equivalent

Remote Sense (CN3): JSTB2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	RS+	JST XHP	JSTSXH-001T-P0.6
2	RS-	or equivalent	or equivalent

## **Block Diagram**

fosc:65KHz

Ta=25°C

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**Output Derating** 



**Static Characteristics**