

**Features**

- 2:1 wide input range
- Protections: Short circuit/Over load/Over voltage/  
Over temperature
- 1500 I/O isolation
- Cooling by free air convection
- 100% full load burn-in test
- 2 year warranty
- 200 watts



Model <sup>1,3</sup>	Input Voltage	Output Voltage	Output Current	Ripple <sup>3</sup> & Noise	Regulation		Efficiency
					Load	Line	
VSD-200B-5	19~36V DC	5V DC	34 A	100mV	±1%	±0.5%	79%
VSD-200B-12	19~36V DC	12V DC	16.7 A	120mV	±1%	±0.5%	82%
VSD-200B-24	19~36V DC	24V DC	8.4 A	150mV	±1%	±0.5%	85%
VSD-200B-48	19~36V DC	48V DC	4.2 A	200mV	±1%	±0.5%	86%
VSD-200C-5	36~72V DC	5V DC	34 A	100mV	±1%	±0.5%	81%
VSD-200C-12	36~72V DC	12V DC	16.7 A	120mV	±1%	±0.5%	84%
VSD-200C-24	36~72V DC	24V DC	8.4 A	150mV	±1%	±0.5%	86%
VSD-200C-48	36~72V DC	48V DC	4.2 A	200mV	±1%	±0.5%	86%
VSD-200D-5	72~144V DC	5V DC	34 A	100mV	±1%	±0.5%	82%
VSD-200D-12	72~144V DC	12V DC	16.7 A	120mV	±1%	±0.5%	82%
VSD-200D-24	72~144V DC	24V DC	8.4 A	150mV	±1%	±0.5%	84%
VSD-200D-48	72~144V DC	48V DC	4.2 A	200mV	±1%	±0.5%	90%

**Notes:**

- 1 All parameters Not specifically mentioned are measured at normal input, rated load and 25°C of ambient temp.
- 2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 3 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.

### Input Voltage

Parameter	Conditions/Description	Min	Nom	Max	Units
Input voltage	B	19	24	36	DC
	C	36	48	72	DC
	D	72	120	144	DC

### Output

Parameter	Conditions/Description	Min	Nom	Max	Units
DC Voltage adj.		4.5	5	5.5	VDC
		11	12	16	VDC
		23	24	30	VDC
		43	48	53	VDC
Over Voltage Protection		5.75		6.75	VDC
		16.8		20	VDC
		31.5		37.5	VDC
		53		65	VDC
DC output power			200		Watts
Overload	For all models. Type-shut down o/p voltage, re-power on to recover		105~135%		
Voltage Tolerance	Model B is $\pm 2\%$ , $\pm 1\%$ for all other models				
Hold up time			50		mS
Set up	For all models		300		mS

### Protection Circuit

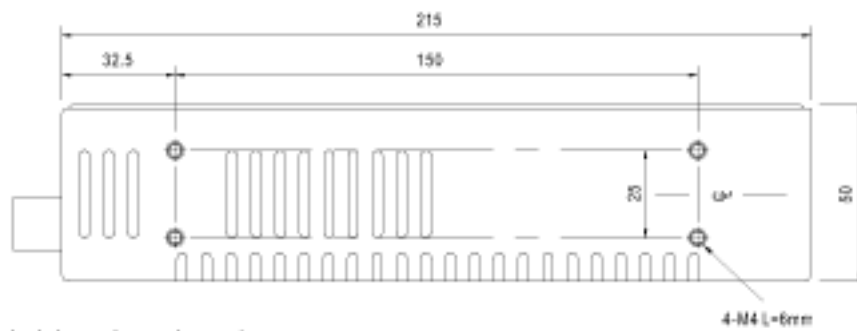
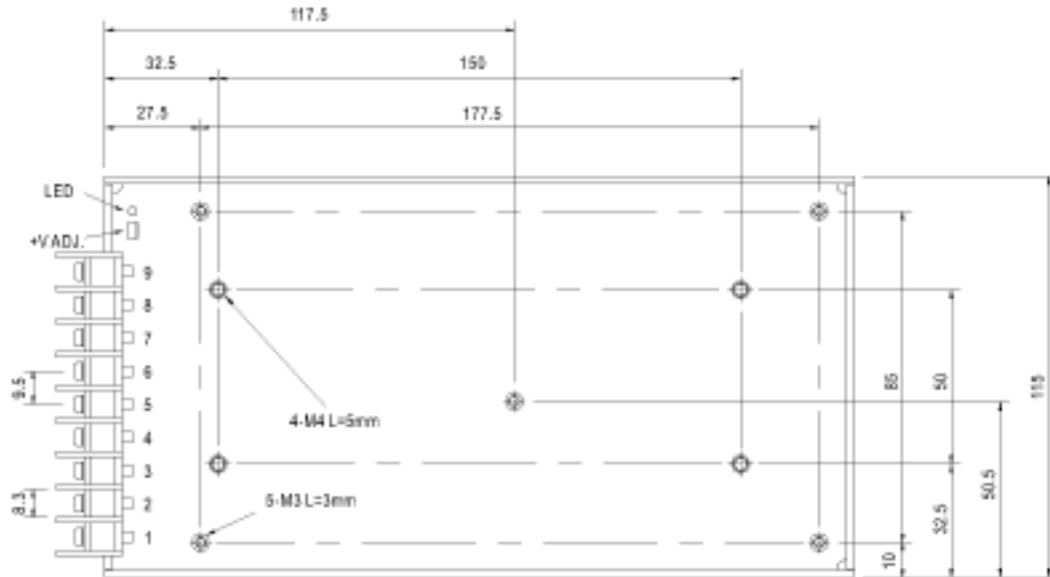
Parameter	Conditions/Description			
Input Fuse	Built-in ac fuse. A blown fuse usually indicates permanent damage to the power supply serviceable by factory only.			
Short circuit	Short circuit can be continuous. Recovers automatically upon removal of short.			
Over temp.	Power supply shuts down when temperature is in excess of	B	95	C
		C	95	C
		D	75	C

## General and Safety

Parameter	Conditions/Description	Min	Nom	Max	Units
Operating temp.	(refer to output derating curve)	-20		60	°C
Storage temp.		-40		85	°C
Operating humid.	Non-condensing	20%		90%	RH
Storage humid.	Non-condensing	10%		95%	RH
Temperature coefficient		±0.3% / °C (0~50°C)			
EMI	EN55022(CISPR22) CLASS B				
Safety (EMC)	En61000-4-2, 3, 4, 6, 8, ENV50204 heavy industry level, criteria A.				
Vibration	2G 10min/i cycle, 60 min on X, Y and Z Axis	10		500	Hz
Withstand Voltage	I/P-O/P	1500			VDC
	I/P-FG	1500			VDC
	O/P-FG	500			VDC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG	100mΩ min. / 500VDC			
Cooling	Convection				

## Mechanical

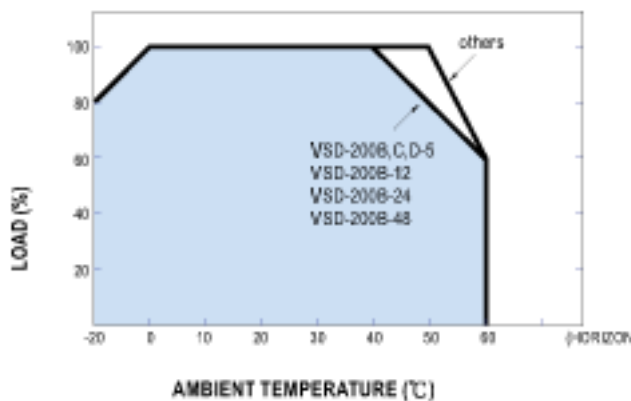
Parameter	Conditions/Description	Min	Nom	Max	Units
Weight				1100	grams
Enclosure	215(L) x 115(W) x 50(H) mm				inches



Terminal pin number assignment :

Pin No.	Assignment	Pin No.	Assignment
1	DC INPUT V+	4,5,6	DC OUTPUT V-
2	DC INPUT V-	7,8,9	DC OUTPUT V+
3	FG ↓		

## Output Derating



## Static Characteristics

