

**Features:**

2:1 wide input range

Protections: Short circuit / Overload / Over voltage / Over temperature

1500VAC I/O isolation

Cooling by free air convection

100% full load burn-in test

24V and 48V input voltage design refer to LVD

1year warranty

**SPECIFICATION**

OUTPUT								
Model	SD-200B				SD-200C			
DC Voltage	5V	12V	24V	48V	5V	12V	24V	48V
Rated Current	34A	16.7A	8.4A	4.2A	40A	16.7A	8.4A	4.2A
Current Range	0~34A	0~16.7A	0~8.4A	0~4.2A	0~40A	0~16.7A	0~8.4A	0~4.2A
Rated Power	170W	200.4W	201.6W	201.6W	200W	200.4W	201.6W	201.6W
Ripple & Noise	100mVp -p	120mVp -p	150mVp -p	200mVp -p	100mVp -p	120mVp -p	150mVp -p	200mVp -p
Voltage Adj. Range	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC
Voltage Tolerance	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
Setup, Rise Time	300ms, 50ms at full load							
INPUT								
Voltage Range	B:19 ~ 36VDC		C:36 ~ 72VDC		D:72 ~144VDC			
Efficiency	79%	82%	85%	86%	81%	84%	86%	86%
DC Current	10.8A/24 V	10.6A/24 V	10.4A/24 V	10.4A/24 V	5.4A/48 V	5.2A/48 V	6.7A/48 V	5A/48V
Inrush Current	C:45A/48VDC		D:45A/96VDC					
PROTECTION								
Over Load	105 ~ 135% rated output power Protection type: Shut down o/p voltage, re-power on to recover							
Over Voltage	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V Protection type: Shut down o/p voltage, re-power on to recover

Over Temperature	95°C±5°C(100°C±5°C for SD-200B-12 only) TSW1 detect on main power transistor Protection type: Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	
Working Temp.	-20 ~ +60°C(Refer to "Derating Curve")
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH
Temp. Coefficient	±0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC	
Safety Standards	UL60950-1approved (for SD-200C-24 type only), IEC60950-1 CB approved by TUV (for D type only)
Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
EMC Emission	Compliance to EN55022 (CISPR22) Class B
EMC Immunity	Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A
OTHERS	
Dimension	215*115*50mm (L*W*H)
Weight	1.1Kg
Packing	12pcs/14.4Kg/0.92CUFT
NOTE	
<p>1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>	

**■ Mechanical Specification**

Terminal Pin No. 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 ↓		

**■ Block Diagram**

**■ Derating Curve**

Ambient Temperature (°C)	Load (%)
20	100
30	100
40	100
50	100
60	100
68	60
70	40
80	20

**■ Static Characteristics**

Input Voltage (V)	Load (%)
8	90
12	95
24	100
48	100
96	100
144	100