Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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RDS180-24

SPECIFICATIONS

B030-01-01A

	MODEL ITEMS			RDS180-24-5	RDS180-24-12	RDS180-24-15	RDS180-24-24
1	Nominal Output Voltage		V	5	12	15	24
2	Maximum Output Current		A	36	15	12	7.5
3	Maximum Output Power		W	180	180	180	180
4	Efficiency (Typ)	(*1)	%	78	79		80
5	Input Voltage Range		-	18 - 32VDC			
6	Input Current (Typ)	(*1)	A	9.6			
7	Inrush Current (Typ)	(*1)	-	30A at Cold Start			
8	Output Voltage Range	(*8)	V	4.0 - 6.0	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8
9	Maximum Ripple	(*2)	mV	50	80	80	100
10	Maximum Ripple & Noise	(*2)	mV	100	170	200	290
11	Maximum Line Regulation	(*3)	mV	40	96	120	192
12	Maximum Load Regulation	(*4)	mV	50	120	150	240
13	Temperature Coefficient		-	Less than 0.02 %/℃			
14	Over Current Protection	(*5)	A	37.8 - 48.6	15.7 - 20.3	12.6 - 16.2	7.8 - 10.2
15	Over Voltage Protection	(*6)	V	6.2 - 7.3	15 - 17.4	18.7 - 21.8	30.0 - 34.8
16	Remote ON/OFF control		-	Possible			
17	Parallel Operation		-	Possible			
18	Series Operation		-	Possible			
19	Operating Temperature	(*7)	-	-20 - +60°C (-20 - +50°C:100%, +60°C:70%)			
20	Operating Humidity		-	20 - 95%RH (No Condensing)			
21	Storage Temperature		-	-25 - +75°C			
22	Storage Humidity		-	20 - 95%RH (No Condensing)			
23	Cooling		-	Convection Cooling			
24	Withstand Voltage		-	Input - Output, Input - FG : 2kVAC (10mA) for 1min., Output - CNT(RC) : 100VAC (100mA) for 1min.			
25	Isolation Resistance		-	Output - FG : 500VDC more than 100MΩ, Output - CNT(RC) : 100VDC more than 10MΩ			
26	Vibration		-	10 - 55Hz : 19.6m/s^2, X,Y,Z 1hour each. JIS E 3014-2-B			
27	Shock		-	294m/s^2 (time : 6±3ms) JIS E 3015-2-B			
28	Safety		-	Approved by UL60950-1 & CSA60950-1, Designed to meet EN60950-1			
29	Conducted Emission		-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A			
30	Radiated Emission		-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A			
31	Immunity		-	Designed to meet IEC61000-4-2(Level 2,3), -4(Level 3), -8(Level 4)			
32	Weight (Typ)		g	1400			
33	Size (W x H x D)		mm	80 x 95 x 220 (Refer to Outline Drawing)			

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

*1. At 24VDC, Ta=25°C, nominal output voltage and maximum output power.

*2. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz.

*3. 18 - 32VDC, constant load.

*4. No load-Full load, constant input voltage.

*5. OCP TYPE : Constant current limit with automatic recovery.

*6. OVP circuit will shut the output down, manual reset (Re power on).

*7. Ratings
- Derating at standard mounting. Refer to output derating curve(B030-01-02_).
- Load (%) is percent of maximum output power or maximum output current,
  whichever is greater.
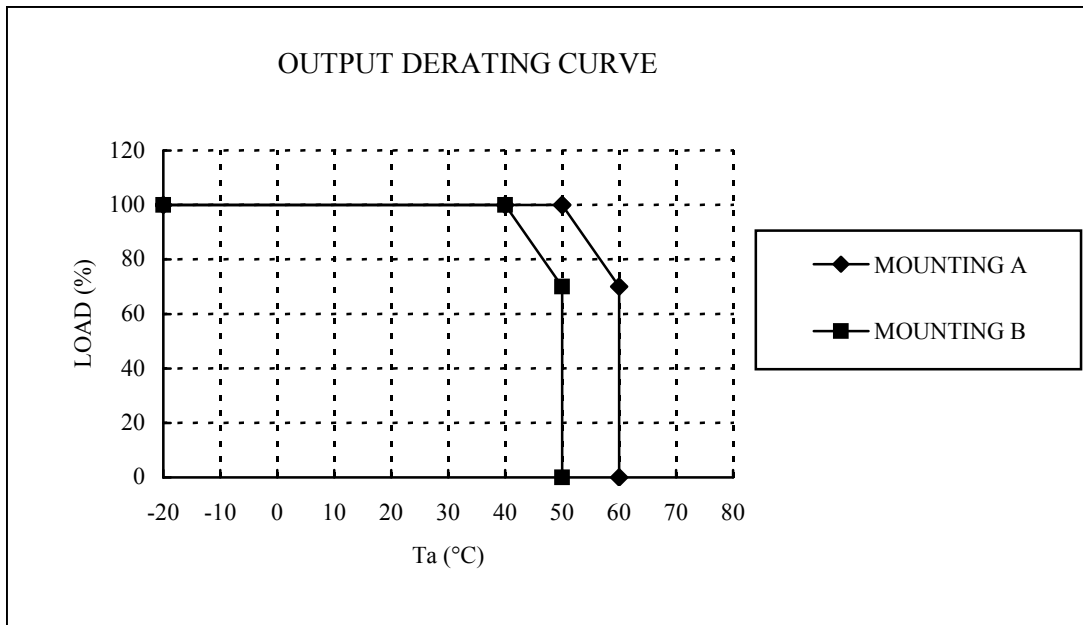
*8. At 24VDC Input.(Refer to instruction manual.)
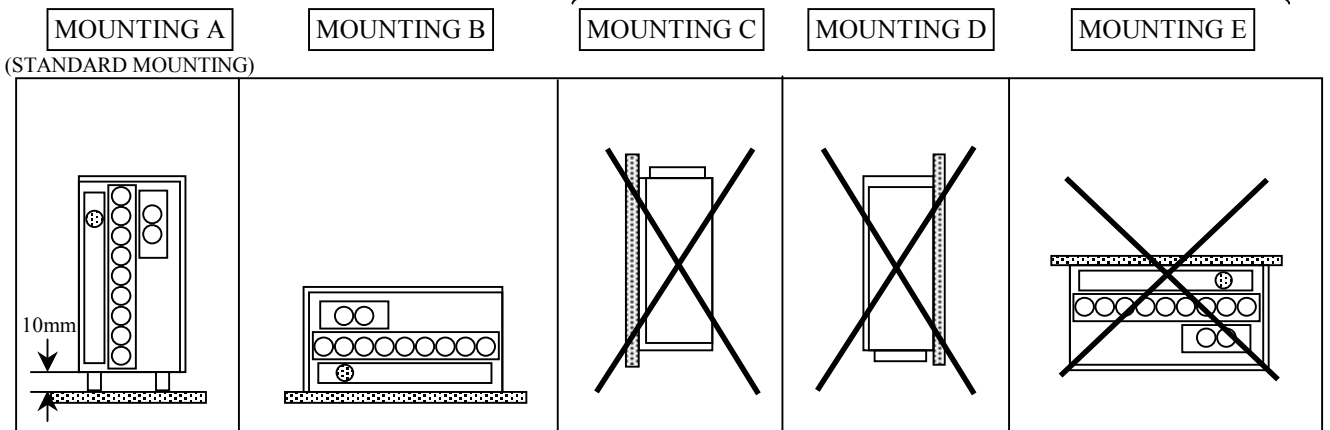
RDS180-24

OUTPUT DERATING

B030-01-02A

*COOLING : CONVECTION COOLING

Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B
-20 - +40	100	100
50	100	70
60	70	-

OUTPUT DERATING CURVE

MOUNTING A
MOUNTING B

DON'T USE

MOUNTING A	MOUNTING B	MOUNTING C	MOUNTING D	MOUNTING E
(STANDARD MOUNTING)				

10mm

Foot Space for mounting 'A'
must be 10mm or higher when
having a load larger than 150W.