

**RDS30A-48**

SPECIFICATIONS (1/2)

FA009-01-01A

ITEMS		MODEL	RDS30A-48-5	RDS30A-48-12	RDS30A-48-15	RDS30A-48-24
<b>INPUT</b>						
Input Voltage Range	-	36 - 63VDC				
Efficiency (Typ)	(*1) %	80	81	81	83	
Input Current (Typ)	(*1) A	0.78	0.77	0.77	0.78	
Inrush Current (Typ)	(*1) -	3.2A at Cold Start				
<b>OUTPUT</b>						
Nominal Output Voltage	V	5	12	15	24	
Output Voltage Initial Set Accuracy	(*9) -	±1%				
Maximum Output Current	A	6.0	2.5	2.0	1.3	
Maximum Output Power	W	30.0	30.0	30.0	31.2	
Maximum Line Regulation	(*3) mV	40	96	120	192	
Maximum Load Regulation	(*4) mV	100	100	100	200	
Temperature Coefficient	-	Less than 0.02%/°C				
Maximum Ripple	(*2) mV	50	80	80	100	
Maximum Ripple & Noise	(*2) mV	100	170	200	290	
Output Voltage Range	V	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	
Over Current Protection	(*5) -	105% - 145%				
Over Voltage Protection	(*6) V	6.0 - 7.5	15.0 - 18.0	17.6 - 22.5	28.0 - 36.0	
<b>FUNCTION</b>						
Remote ON/OFF Control	-	Possible				
Remote Sensing	-	None				
Parallel Operation	-	None				
Series Operation	-	Possible				
<b>ENVIRONMENT</b>						
Operating Temperature	(*7) -	-20 to +60°C(-20 to +50°C:100%, +60°C:70%)				
Storage Temperature	-	-25 to +75°C				
Operating Humidity	-	20 to 95%RH (No Condensing)				
Storage Humidity	-	20 to 95%RH (No Condensing)				
Vibration	(*8) -	At No operating, 10 to 55Hz : 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.				
	-	Designed to meet JIS E 3014-2-B				
	-	Designed to meet IEC61373 - Category 1 - Grade B (EN50155 requirement)				
Shock	(*8) -	196m/s <sup>2</sup> (time : 11±5ms)				
	-	Designed to meet JIS E 3015-2 (294m/s <sup>2</sup> (time : 6±3ms))				
	-	Designed to meet IEC61373 - Category 1 - Grade B (EN50155 requirement)				
Cooling	-	Convection Cooling				
<b>ISOLATION</b>						
Withstand Voltage	-	Input - Output, Input - FG : 2kVAC(10mA) for 1min., Output - CNT(RC) : 100VAC(100mA) for 1min.				
Isolation Resistance	-	Output - FG : 500VDC 100Mohm, Output - CNT(RC) : 100VDC 10Mohm				
<b>STANDARD AND COMPLIANCE</b>						
Safety	-	Approved by IEC/EN/CSA/UL62368-1 (Altitude≤3,000m)				
Conducted Emission	(*8) -	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B, EN50121-3-2 (EN50155 requirement)				
Radiated Emission	(*8) -					
Immunity	(*8) -	Designed to meet IEC61000-4-2(Level 2,3),-4(Level 3), -5(Level 1), -8(Level 4)				
<b>MECHANICAL</b>						
Weight (Typ.)	g	400				
Size (W x H x D)	mm	38 x 95 x 130 ( Refer to Outline Drawing )				

## SPECIFICATIONS (2/2)

FA009-01-01A

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

=NOTES=

- \*1. At 48VDC, Ta=25°C, nominal output voltage and maximum output power.
- \*2. Measure with JEITA RC-9141B probe, Bandwidth of scope :100MHz.
- \*3. 36 - 63VDC, constant load.
- \*4. No load-Full load, constant input voltage.
- \*5. OCP TYPE : Constant current limit and hiccup with automatic recovery.
- \*6. OVP circuit will shut the output down, manual reset (CNT reset or Re power on).
- \*7. Ratings - Derating at standard mounting. Refer to output derating curve.
  - Load (%) is percent of maximum output power or maximum output current, whichever is greater.
- \*8. This result is evaluated by TDK-Lambda standard measurement conditions.
  - The power supply is considered a component which will be installed into a final equipment.
  - The final equipment should be re-evaluated that it meets EMC, Vibration and Shock directives.
- \*9. At factory shipment. (At 48VDC input voltage, nominal output voltage and maximum output current.)

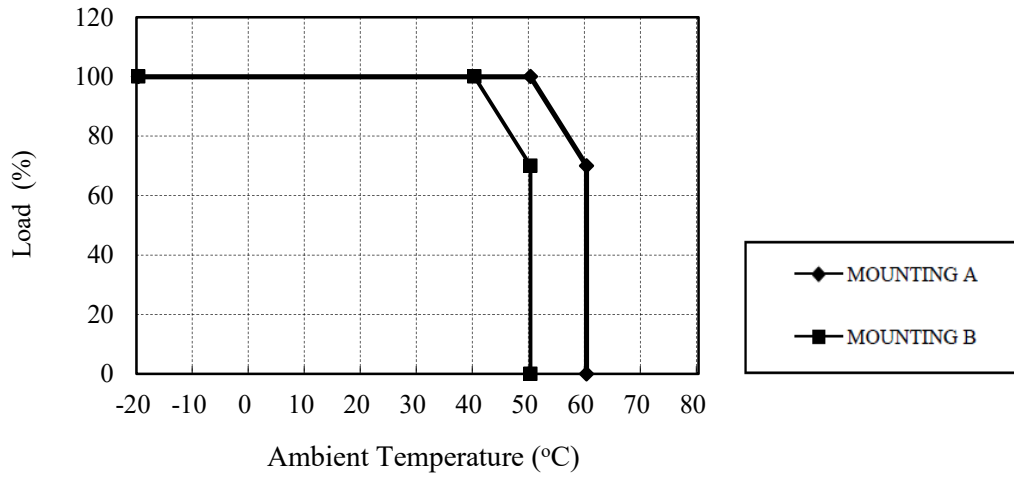
**RDS30A-48**

FA009-01-02

\* Cooling : Convection cooling

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

Derating Curve



Mounting method

