

## DRB120-24-1

### SPECIFICATIONS

PA634-01-01B

ITEMS		MODEL	DRB120-24-1
1	Nominal Output Voltage	V	24
2	Maximum Output Current	A	5
3	Peak Output Current (*12)	A	6
4	Maximum Output Power	W	120
5	Peak Output Power (*12)	W	144
6	Efficiency (Typ) (115/230VAC) (*1)	%	91/93
7	Active Average Efficiency Related to ErP (Typ) (230VAC) (*1)	%	87
8	Input Voltage Range (*2)	V	85 ~ 264VAC (47-63Hz) (Withstand 300VAC Surge for 5 seconds)
9	Input Current (Typ) (115/230VAC) (*1)	A	1.2 / 0.7
10	Inrush Current (Typ) (230VAC) (*3)	A	55A
11	PFHC	-	Designed To Meet IEC61000-3-2
12	Power Factor (Typ) (115/230VAC) (*1)	-	0.98 / 0.92
13	Output Voltage Range	V	24~28
14	Ripple & Noise (*1,4)	mV	240
15	Line Regulation (*5,6)	mV	24
16	Load Regulation (*5,7)	mV	240
17	Temperature Coefficient	-	Less than 0.02% / °C
18	Over Current Protection (*8)	-	Hiccup
19	Over Voltage Protection (*9)	V	30~35
20	Hold-up Time (Typ) (*1)	ms	20
21	Leakage Current (*10)	-	< 1mA at 230VAC
22	Monitoring Signal	-	DC OK (Photocoupler Rated : 50V, 5mA ), DC OK LED
23	Series Operation	-	Possible
24	Parallel Operation	-	No
25	Operating Temperature (*11)	-	-25~+55°C : 100%, +70°C : 50%
26	Operating Humidity	-	5~95%RH (No dewdrop)
27	Storage Temperature	-	-40°C ~ +85°C
28	Storage Humidity	-	5~95%RH (No dewdrop)
29	Cooling	-	Convection Cooling
30	Withstand Voltage	-	Input - Output : 4243VDC (20mA), Input - FG : 2500VDC (20mA) Output - FG : 707VDC (100mA) For Imin.
31	Isolation Resistance	-	Input - FG, Input - Output and Output - FG More than 100MΩ (500VDC) at 25°C and 70%RH
32	Vibration	-	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s <sup>2</sup> (2G) Constant, X, Y, Z 1hour each.
33	Shock/(In Package)	-	Less Than 196 m/s <sup>2</sup> (20G)
34	Operating Altitude	-	3000m
35	Safety	-	Approved by IEC/EN/UL/CSA 62368-1, UL/CSA 508, IS13252
36	EMI	-	Designed to meet EN55011-B, EN55032-B, EN61204-3 CLASS A
37	CE	-	LVD, RoHS 2, EMC
38	UKCA	-	Safety and EMC Reg. 2016, Hazard. Substances Reg. 2012
39	Immunity	-	Designed to meet EN61000-4-2 (Level 4), -3 (Level 3), -4 (Level 4), -5 (Level 4), -6 (Level 3), -8 (Level 4), -11
40	Weight(Typ.)	g	500
41	Size (W x D x H)	mm	35 x 125 x 124 (Refer to Outline drawing)

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

=NOTES=

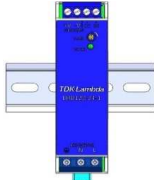
- \*1. At Maximum Output Power, nominal input voltage, Ta = 25°C.
- \*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100-240VAC, 50/60Hz on name plate.
- \*3. Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- \*4. Ripple & noise are measured at 20MHz by using a 300mm twisted pair of load wires terminated with a 0.1uF Film Capacitor and a 47uF Electrolytic Capacitor.
- \*5. Measure line & load regulation at output terminal.
- \*6. 85 - 264VAC, constant load.
- \*7. No load - Full load, constant input voltage.
- \*8. Over rated current (>101%) of peak power.
- \*9. Output latched shut down at no load and hiccup at any load. Manual reset by AC cycle.
- \*10. Measured by each measuring method of UL and EN (at 60Hz), Ta = 25°C.
- \*11. Refer to Output Derating Curve (PA634-01-02\_) for details of output derating versus ambient temperature.
- \*12. Operating period at peak output current is D≤35%, <10sec and 5Arms max.
- \*13. All parameters not specifically mentioned are measured at 230VAC input, rated load and Ta = 25°C.

**DRB120-24-1**

PA634-01-02

DERATING CURVE

**\*COOLING : CONVECTION COOLING**

Ta (°C)	LOAD (%)	STANDARD MOUNTING
-25 ~ +55	100	
70	50	

