

RDW 100



RDW 150

**FEATURES**

- \* Resonant switchers, power factor correction and main converter
- \* Power factor correction up to 0.99, meeting IEC61000-3-2(EN61000-3-2)
- \* 85 to 264VAC universal input
- \* High efficiency up to 85%
- \* Low EMI, meeting FCC B, CISPR B

**SAFETY STANDARDS**

- UL1950 Recognized
- CSA22.2 No.950 Certified (cUL)
- EN60950 (TUV Certified)
- CE mark (LVD only)

**APPLICATIONS**

- \*Data/information processing equipment
- \*FA control equipment
- \*Measuring, inspection and testing equipment
- \*Communication equipment
- \*Optical equipment



**RDW SERIES GENERAL SPECIFICATIONS**

ITEM	
1	Input voltage range 85V ~ 264VAC
2	Input frequency range 47Hz ~ 63Hz
3	Operating temperature -10 ~ 60°C (Refer to Output derating)
4	Operating humidity 30 ~ 90%RH (Non condensing)
5	Storage temperature -30 ~ 85°C
6	Storage humidity 10~95%RH (Non condensing)
7	Cooling Convection or forced air cooling (Refer to Output derating)
8	Electric strength voltages Input - Output 3000VAC 1 minute , Input - FG 1500VAC 1 minute , Output - FG 500VAC 1 minute
9	Insulation resistance 100MΩ MIN DC500V 25°C 70%RH Input - Output, Input - FG, Output - FG
10	Leakage current 0.5mA MAX (240VAC, 50Hz)
11	Vibration 10 ~ 55Hz 2G (3 directions each 1 hour)
12	Shock 20 ms 20G (3 directions each 3 times)
13	Safety standards UL1950, CSA950(cUL), EN60950(TUV) Approvals
14	Conduction noise Meeting FCC Class B, EN55022 Class B, VCCI Class B
15	Harmonic distortion Meeting EN61000-3-2
16	Mains surge Meeting EN61000-4-5 Level 3 / 4KV(CM), 2KV(DM)

# RDW100 SPECIFICATIONS

## RDW100 SPECIFICATIONS

ITEM	RDW100-52	RDW100-54
1 Rated output DC voltage	(1) 5V (2) 12V	(1) 5V (2) 24V
2 Rated output DC current	4A 6.5A	4A 3.5A
3 Maximum output power	98W	104W
4 Efficiency(120/230VAC,TYP) *1	80.3% / 80.6%	81.6% / 83.4%
5 Input current *1	1.3A (100VAC), 0.6A (230VAC)	
6 Power factor *1	0.99 TYP (100VAC), 0.97 TYP (230VAC)	
7 Inrush current *2	21Apk MAX (120VAC), 42Apk MAX (240VAC)	
8 Initial setting accuracy *1	±0.5% MAX	
9 Maximum ripple noise	50mVpp(5V load), 70mVpp(12V, 24V load)	
10 Maximum line regulation	±0.1%	
11 Maximum load regulation	±0.5%(5V load), ±0.2%(12V, 24V load)	
12 Voltage tolerance ratio	±3% at line, load, time, temperature	
13 Hold-up time *1	20ms MiN after last AC line peak	
14 Over current protection *3	more than 105% A of rated current	
15 Over voltage protection *4	5.75V ~ (Detected 5V output)	
16 Dimensions	105(W) 190(D) 48(H) mm / 4.13"(W) 7.48"(D) 1.89"(H)	
17 Weight	740g / 1.63lb. TYP	

# RDW150 SPECIFICATIONS

## RDW150 SPECIFICATIONS

ITEM	RDW150-52	RDW150-54
1 Rated output DC voltage	(1) 5V (2) 12V	(1) 5V (2) 24V
2 Rated output DC current	14A 6A	14A 6A
3 Maximum output power	142W	160W
4 Efficiency(120/230VAC,TYP) *1	81.5% / 83.6%	83.5% / 85.3%
5 Input current *1	2.0A (100VAC), 0.9A (230VAC)	
6 Power factor *1	0.99 TYP (100VAC), 0.96 TYP (230VAC)	
7 Inrush current *2	21Apk MAX (120VAC), 42Apk MAX (240VAC)	
8 Initial setting accuracy *1	±0.5% MAX	
9 Maximum ripple noise	50mVpp(5V load), 70mVpp(12V, 24V load)	
10 Maximum line regulation	±0.1%	
11 Maximum load regulation	±0.7%(5V load), ±0.5%(12V, 24V load)	
12 Voltage tolerance ratio	±3% at line, load, time, temperature	
13 Hold-up time *1	20ms MiN after last AC line peak	
14 Over current protection *3	more than 105% A of rated current	
15 Over voltage protection *4	5.75V ~ (Detected 5V output)	
16 Dimensions	115(W) 202(D) 48(H) mm / 4.53"(W) 7.95"(D) 1.89"(H)	
17 Weight	900g / 1.98lb. TYP	

### NOTES

\*1 When maximum output is worked

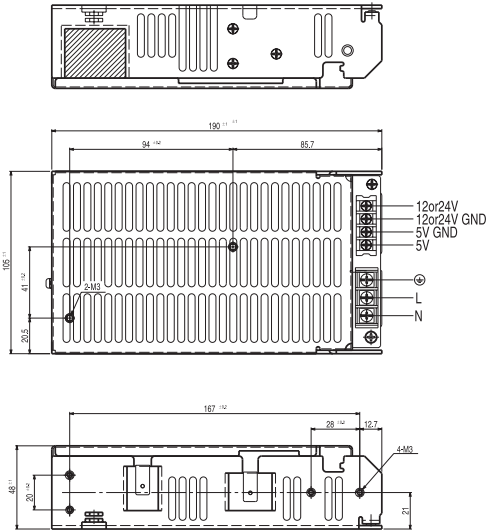
\*2 When cold start works with rated voltage at 25°C ambient temperature

\*3 Recovers automatically within 3 seconds, after on input again

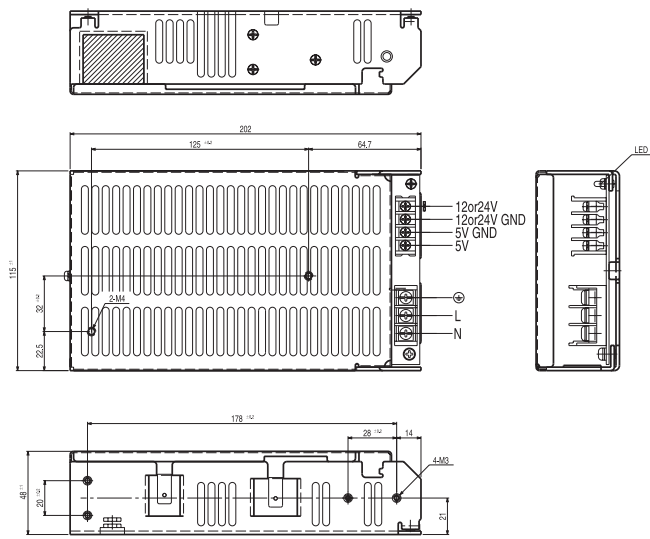
\*4 Recovers on input again

**RDW SERIES OUTLINE DRAWING**

**RDW 100**

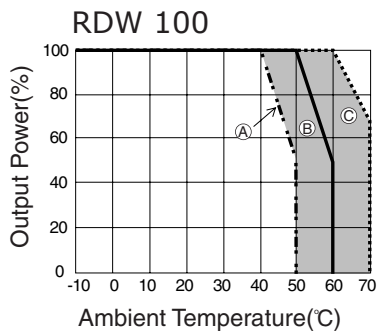


**RDW 150**

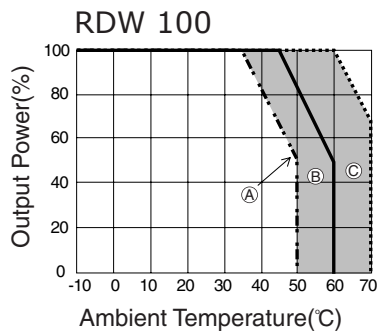


**RDW SERIES OUTPUT DERATING**

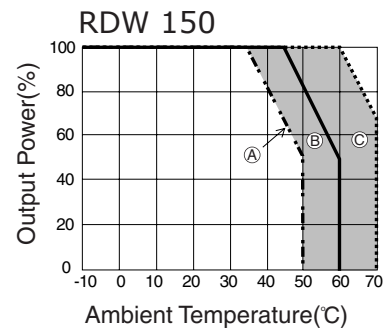
**Vertical**



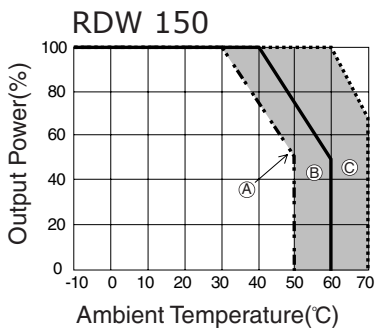
**Horizontal**



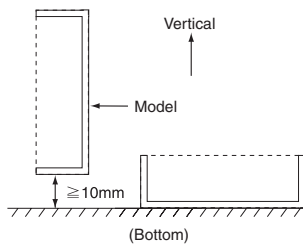
**Vertical**



**Horizontal**



**Mounting Direction(conv)**



- Ⓐ Conv. with Cover
- Ⓑ Conv. Open Frame
- Ⓒ F/Air