

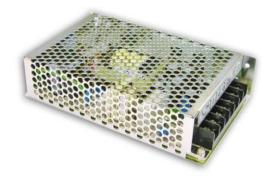
E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

85W Enclosed type Dual output power supply > RD-85



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- · LED indicator for power on
- . 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- · Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- 3 years warranty







C D	r)		ICA	TΙ	\sim	м
Эr	U	Г	ICA		U	IA

MODEL		RD-85A		RD-85B				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
ОИТРИТ	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	8A	4A	8A	2A			
	CURRENT RANGE Note.3	0 ~ 10A	0 ~ 5A	0 ~ 10A	0 ~ 2.5A			
	RATED POWER Note.6	88W		88W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±2.0%	±5.0%	±2.0%	±5.0%			
	LINE REGULATION Note.4	±0.5%	±1.0%	±0.5%	±1.0%			
	LOAD REGULATION Note.5	±1.0%	±3.0%	±1.0%	±3.0%			
	SETUP, RISE TIME	500ms, 20ms/230VAC 120	00ms, 30ms/115VAC at full load					
HOLD UP TIME (Typ.)		100ms/230VAC 18ms/115VAC at full load						
VOLTAGE RANGE		88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY(Typ.)	78%		80%				
	AC CURRENT (Typ.)	2.5A/115VAC 1.5A/230VA	(C					
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
PROTECTION		110 ~ 150% rated output power						
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	01/50 1/01 74 05	CH1: 5.75 ~ 6.75V						
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) on +5V output						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
-	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020						
	MTBF	239.4Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	159*97*38mm (L*W*H)						
		0.6Kg; 24pcs/15.4Kg/0.83CUFT						

NOTE

- Il parameters NOT specially mentioned are measured at 230VAC input, rated load and $25^{\circ}\mathrm{C}$ of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

 3. Tolerance: includes set up tolerance, line regulation and load regulation. (In order to meet tolerance, it is recommended that CH1 load > 10% rated current.)
- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.
- 6. Each output can work within current range. But total output power can't exceed rated output power.
- 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.

 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

85W Enclosed type Dual output power supply > RD-85

