



■ Features :

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Input reverse polarity
- 4000VDC I/O isolation
- Cooling by free air convection
- Half encapsulated
- Built-in constant current limiting circuit
- 1U low profile 36mm
- All using 105°C long life electrolytic capacitors
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

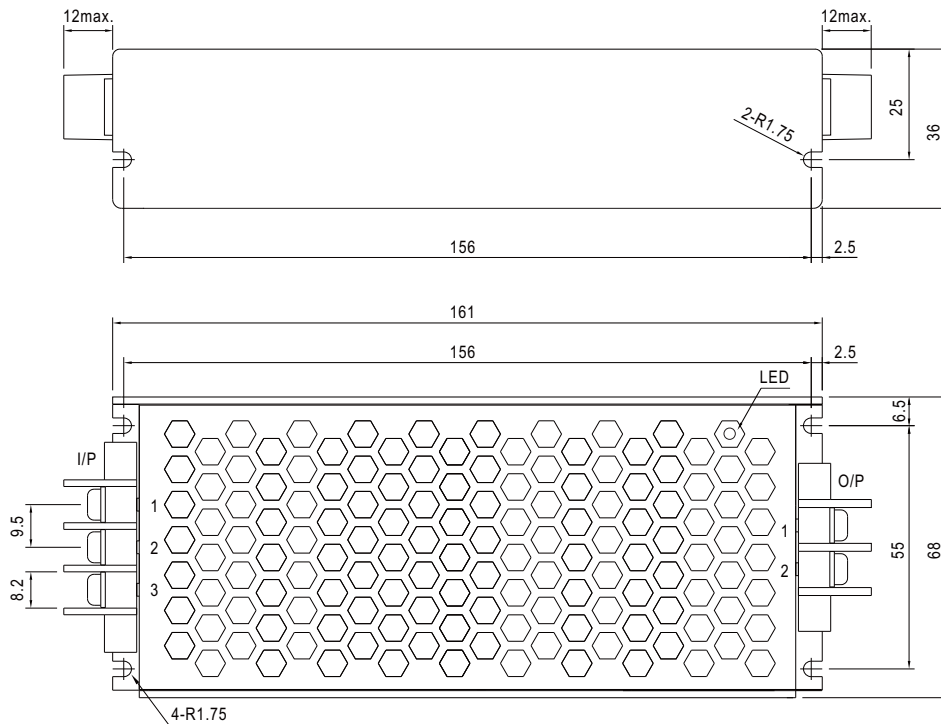


SPECIFICATION

MODEL			RSD-100B-5	RSD-100B-12	RSD-100B-24	RSD-100C-5	RSD-100C-12	RSD-100C-24	RSD-100D-5	RSD-100D-12	RSD-100D-24
OUTPUT	DC VOLTAGE		5V	12V	24V	5V	12V	24V	5V	12V	24V
	RATED CURRENT		20A	8.4A	4.2A	20A	8.4A	4.2A	20A	8.4A	4.2A
	CURRENT RANGE		0 ~ 20A	0 ~ 8.4A	0 ~ 4.2A	0 ~ 20A	0 ~ 8.4A	0 ~ 4.2A	0 ~ 20A	0 ~ 8.4A	0 ~ 4.2A
	RATED POWER		100W	100.8W	100.8W	100W	100.8W	100.8W	100W	100.8W	100.8W
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	150mVp-p	100mVp-p	120mVp-p	150mVp-p	100mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3		± 2.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%
	LINE REGULATION		± 0.5%	± 0.3%	± 0.2%	± 0.5%	± 0.3%	± 0.2%	± 0.5%	± 0.2%	± 0.2%
	LOAD REGULATION		± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	SETUP, RISE TIME		800ms, 50ms at full load								
HOLD UP TIME (Typ.)		B/C- type comply with S1 level @ full load, comply with S2 level @ 70% load ; D-type comply with S2 level @ full load									
INPUT	VOLTAGE RANGE	CONTINUOUS	16.8 ~ 31.2VDC			33.6 ~ 62.4VDC			67.2 ~ 143VDC		
		1 SEC.	14.4 ~ 33.6VDC			28.8 ~ 67.2VDC			57.6 ~ 154VDC		
	EFFICIENCY (Typ.)		88%	89%	89%	89%	91%	91%	89.5%	91%	90%
	DC CURRENT (Typ.)		4.8A/24V	4.8A/24V	4.8A/24V	2.4A/48V	2.4A/48V	2.4A/48V	1.2A/110V	1.2A/110V	1.2A/110V
	INRUSH CURRENT (Typ.)		30A/24VDC				30A/48VDC			30A/110VDC	
PROTECTION	OVERLOAD		105 ~ 135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed								
	OVER VOLTAGE		5.75 ~ 7V 13.8 ~ 16.2V 27.6 ~ 32.4V 5.75 ~ 7V 13.8 ~ 16.2V 27.6 ~ 32.4V 5.75 ~ 7V 13.8 ~ 16.2V 27.6 ~ 32.4V Protection type : Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.		-40 ~ +55℃ (no derating) ; +70℃ @ 60% load by free air convection ; +70℃ no derating with external base plate, TX class compliance								
ENVIRONMENT	WORKING HUMIDITY		5 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 5 ~ 95% RH								
	TEMP. COEFFICIENT		± 0.03%/℃ (0 ~ 50℃)								
	VIBRATION		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes ; Mounting : compliance to IEC61373								
SAFETY & EMC (Note 4)	SAFETY STANDARDS		Meet IEC60950-1(LVD)								
	WITHSTAND VOLTAGE		I/P-O/P:4KVDC I/P-FG:2.5KVDC O/P-FG:2.5KVDC								
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH								
	EMC EMISSION		Compliance to EN55022 (CISPR22) Conduction Emission: Class A, Radiation Emission: Class B								
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A								
	RAILWAY STANDARD		Meet EN50155 / IEC60571 including IEC61373 for shock & vibration, EN50121-3-2 for EMC ; EN45545-2 for fire protection								
OTHERS	MTBF		254.1K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION		161*68*36mm (L*W*H)								
	PACKING		0.6Kg; 24pcs/15.4Kg/0.98CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 24,48,110VDC input, rated load and 25℃ 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. 4. 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." (as available on http://www.meanwell.com) 5. Strongly recommended that external output capacitance should not exceed 5000uF.										

Mechanical Specification

Case No.999A Unit:mm



Input Terminal Pin No. Assignment :

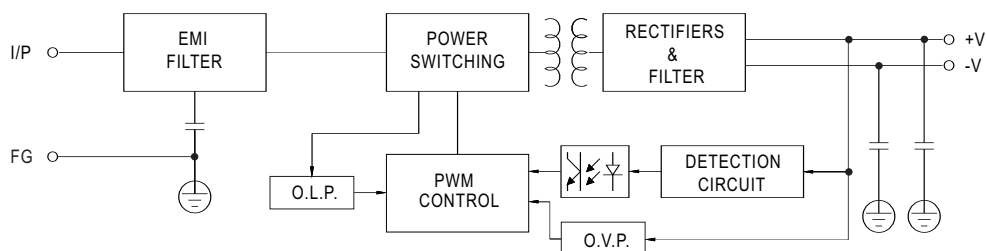
Pin No.	Assignment
1	DC INPUT V+
2	DC INPUT V-
3	FG $\perp$

Output Terminal Pin No. Assignment :

Pin No.	Assignment
1	DC OUTPUT -V
2	DC OUTPUT +V

Block Diagram

fosc : 130KHz



Input Fuse

There is one fuse connected in series to the positive input line, which is used to protect against abnormal surge. Fuse specifications of each model are shown as below.

Type	Fuse Type	Reference and Rating
B	Time-Lag	Conquer UDA-A, 10A, 250V
C	Time-Lag	Conquer UDA-A, 5A, 250V
D	Time-Lag	Conquer UDA-A, 3.15A, 250V