



■ Features :

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temperature / 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

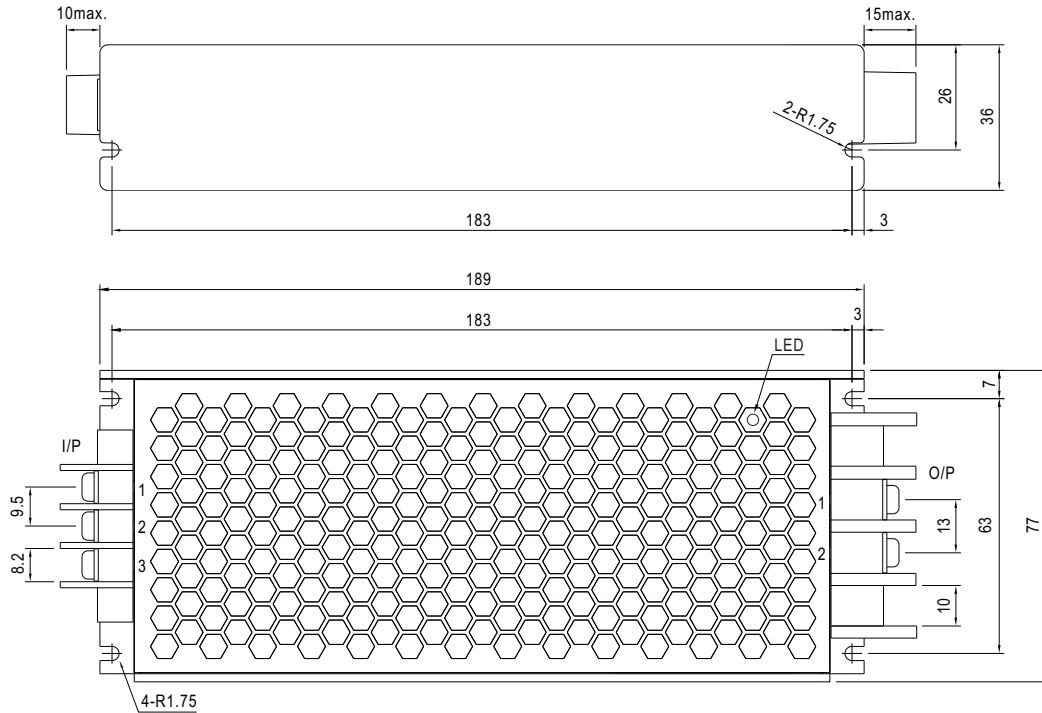


SPECIFICATION

MODEL		RSD-150B-5	RSD-150B-12	RSD-150B-24	RSD-150C-5	RSD-150C-12	RSD-150C-24	RSD-150D-5	RSD-150D-12	RSD-150D-24						
OUTPUT	DC VOLTAGE	5V	12V	24V	5V	12V	24V	5V	12V	24V						
	RATED CURRENT	30A	12.5A	6.3A	30A	12.5A	6.3A	30A	12.5A	6.3A						
	CURRENT RANGE	0 ~ 30A	0 ~ 12.5A	0 ~ 6.3A	0 ~ 30A	0 ~ 12.5A	0 ~ 6.3A	0 ~ 30A	0 ~ 12.5A	0 ~ 6.3A						
	RATED POWER	150W	150W	151.2W	150W	150W	151.2W	150W	150W	151.2W						
	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 (except RSD-150B-5 @ 60% 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.)	89%	90%	90%	90%	92%	91%	90%	92%	91%						
	DC CURRENT (Typ.)	7.3A/24V	7.3A/24V	7.3A/24V	3.6A/48V	3.6A/48V	3.6A/48V	1.5A/110V	1.5A/110V	1.5A/110V						
	INRUSH CURRENT (Typ.)	45A/24VDC			45A/48VDC			45A/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														
ENVIRONMENT	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down														
	WORKING TEMP.	-40 ~ +55°C (no derating) ; +70°C @ 60% load by free air convection ; +70°C no derating with external base plate, TX class compliance														
	WORKING HUMIDITY	5 ~ 95% RH non-condensing														
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 5 ~ 95% RH														
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)														
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes ; Mounting : compliance to IEC61373														
	SAFETY STANDARDS															

Mechanical Specification

Case No.978A Unit:mm



Input Terminal Pin No. Assignment :

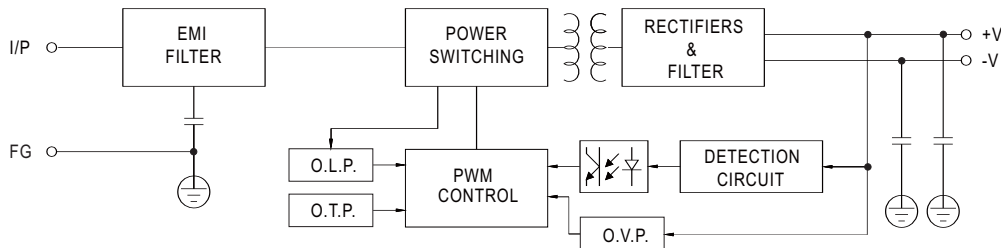
Pin No.	Assignment
1	DC INPUT V+
2	DC INPUT V-
3	FG $\perp$

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, 15A, 250V
C	Time-Lag	Conquer UDA-A, 10A, 250V
D	Time-Lag	Conquer UDA-A, 4A, 250V