


■ Features :

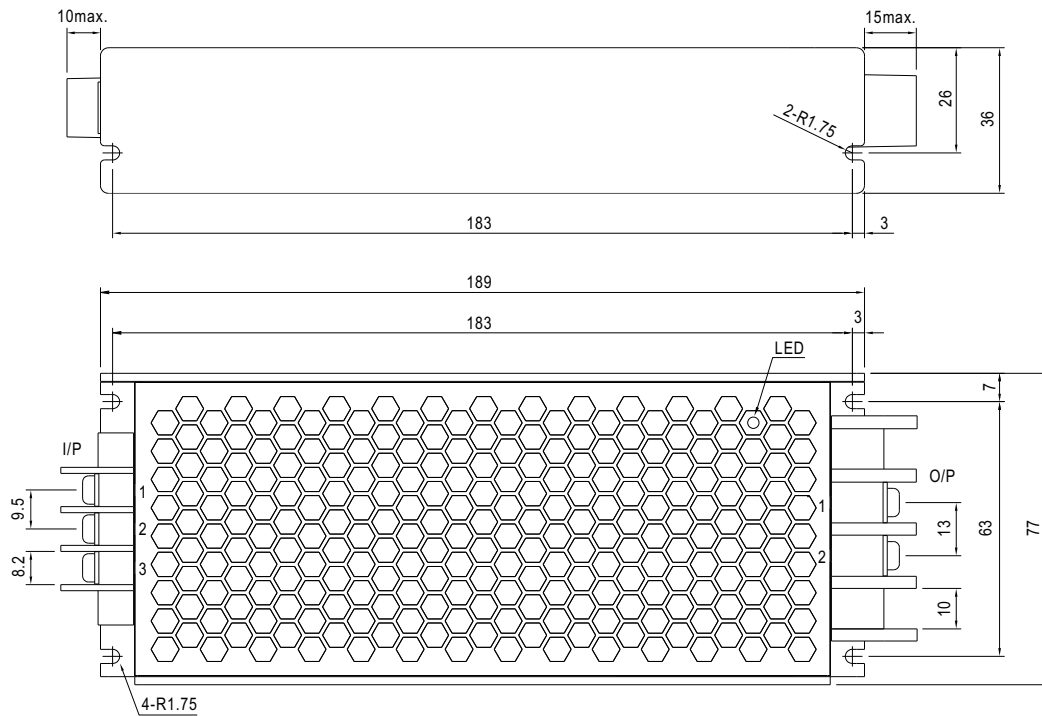
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temperature / Input reverse polarity
- 4000VDC I/O isolation
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 36mm
- Compliance to EN50155 railway standard
- All using 105°C 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.)	3 ~ 30ms @ full load ; B/C- type comply with S1 level ; D-type comply with S2 level								
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								
OVER TEMPERATURE	115℃±5℃(TSW1) detect on main power transformer									
	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.	-40 ~ +55℃ (no derating) ; +70℃ @ 60% load by free air convection ; +70℃ (no derating with external base plate)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 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 ; EN50121-3-2								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A ; EN50121-3-2								
	RAILWAY STANDARD	Meet EN50155 / IEC60571 including IEC61373 for shock & vibration, EN50121-3-2 for EMC								
OTHERS	MTBF	223.2K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	189*77*36mm (L*W*H)								
	PACKING	0.8Kg; 15pcs/13Kg/0.75CUFT								
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. The final equipment must be re-confirmed that it still meets EMC directives.									

Mechanical Specification

Case No.978A Unit:mm



Input Terminal Pin No. Assignment :

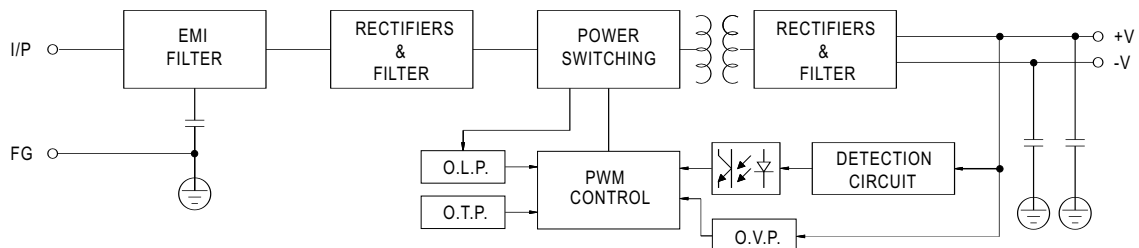
Pin No.	Assignment
1	DC INPUT V+
2	DC INPUT V-
3	FG $\perp$

Output Terminal Pin No. Assignment :

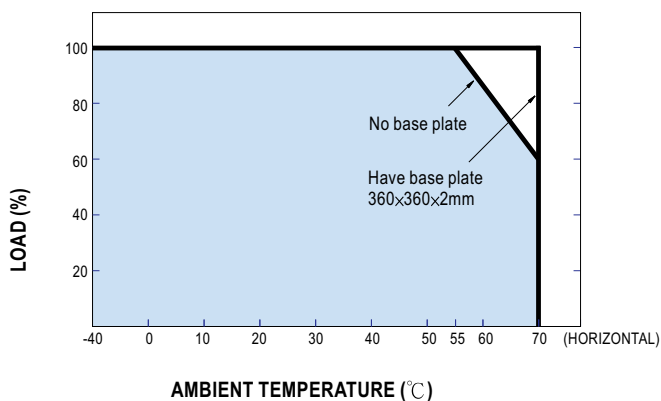
Pin No.	Assignment
1	DC OUTPUT -V
2	DC OUTPUT +V

Block Diagram

fosc: 130KHz



Derating Curve



Static Characteristics(RSD-150D-24)

