



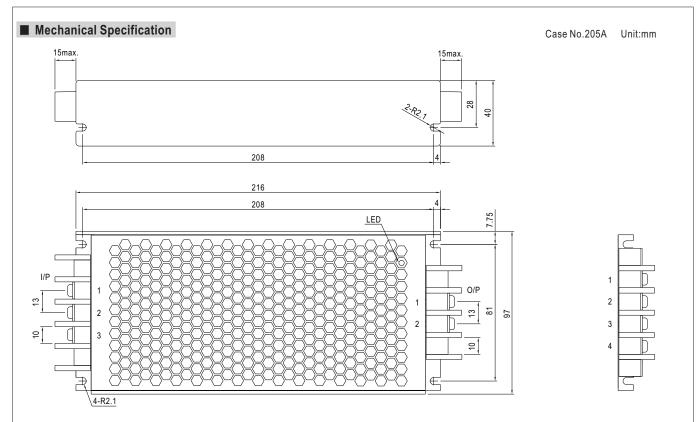
## ■ Features :

- 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 40mm
- All using 105°C long life electrolytic capacitors
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

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MODEL		RSD-300F-5	RSD-300F-12	RSD-300F-24	RSD-300F-48		
	DC VOLTAGE		5V	12V	24V	48V	
	RATED CURRENT		42A	25A	12.5A	6.3A	
	CURRENT RANGE		0 ~ 42A	0 ~ 25A	0 ~ 12.5A	0 ~ 6.3A	
	RATED POWER		210W	300W	300W	302.4W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	150mVp-p	180mVp-p	
OUTPUT	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATI	ION	±0.5%	±0.3%	±0.2%	±0.5%	
	LOAD REGULAT	TION	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TI	ME	800ms, 50ms at full load				
	HOLD UP TIME (Typ.)		F-type comply with S2 level @ full load				
	VOLTAGE CONTINUOUS		50.4 ~ 93.6VDC				
		SEC.	43.2 ~ 100.8VDC				
INPUT	EFFICIENCY (Ty	/p.)	89%	91%	91%	91.5%	
	DC CURRENT (T		3.25A/72V	4.6A/72V	4.6A/72V	4.6A/72V	
	INRUSH CURRE		45A/72VDC				
	(.,,,,,		105 ~ 135% rated output power				
	OVERLOAD		Protection type: Constant current limiting, recovers automatically after fault condition is removed				
PROTECTION			5.75 ~ 7V	13.8 ~ 16.2V	27.6 ~ 32.4V	55.2 ~ 64.8V	
	OVER VOLTAGE		Protection type : Shut do	own o/p voltage, re-power on to	recover		
	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				
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-40 ~ +85°C , 5 ~ 95% RH				
	TEMP. COEFFICIENT		±0.03%/°C (0~55°C)				
	VIBRATION		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: compliance to IEC61373				
	SAFETY STANDARDS		Meet IEC60950-1(LVD))				
	WITHSTAND VOLTAGE		I/P-O/P:4KVDC				
SAFETY &	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
EMC	EMC EMISSION		Compliance to EN55022 (CISPR22) Conduction Emission: Class A, Radiation Emission: Class B				
(Note 4)	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		130.7K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION		216*97*40mm (L*W*H)				
	PACKING		1.19Kg; 12pcs/15.3Kg/1.12CUFT				
NOTE	2. Ripple & nois 3. Tolerance : ir 4. The power si a 360mm*36 perform thesi	se are measure ncludes set up upply is consid Omm metal pla e EMC tests, p	DT specially mentioned are measured at 72VDC input, rated load and 25°C of ambient temperature.  e measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  les set up tolerance, line regulation and load regulation.  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 metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to IC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) ended that external output capacitance should not exceed 5000uF.				





Input Terminal Pin No. Assignment:

Pin No.	Assignment
1	DC INPUT V+
2	DC INPUT V-
3	FG ±

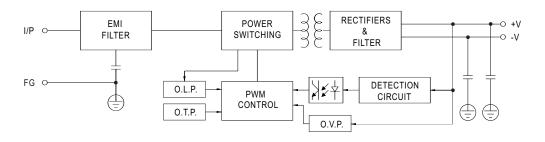
Output Terminal Pin No. Assignment : (For 12V, 24V, 48V) (For 5V)

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

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

fosc: 130KHz

## **■** Block Diagram



## ■ Input Fuse

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

Туре	Fuse Type	Reference and Rating
В	Fast	Littelfuse 257, 30A, 32V
С	Time-Lag	Conquer UDA-A, 16A, 250V
D	Time-Lag	Conquer UDA-A, 8A, 250V
Е	Time-Lag	Conquer UDA-A, 20A, 250V
F	Time-Lag	Conquer UDA-A, 10A, 250V