



Features:

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / 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 certificate
- All using 105 $^{\circ}\!\mathbb{C}$ long life electrolytic capacitors
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

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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
	DC VOLTAGE		5V	12V	24V	5V	12V	24V	5V	12V	24V
ОИТРИТ	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.)		3 ~ 30ms @ full load ; B/C- type comply with S1 level ; D-type comply with S2 level								
INPUT	VOLTAGE	CONTINUOUS	16.8 ~ 31.2VDC			33.6 ~ 62.4VDC			67.2 ~ 143VDC		
	RANGE	1 SEC.	14.4 ~ 33.6VDC			28.8 ~ 67.2VDC			57.6 ~ 154VDC		
	EFFICIENCY	(Тур.)	88%	89%	89%	89%	91%	91%	89.5%	91%	90%
	DC CURREN	Г (Тур.)	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								
ENVIRONMENT	WORKING TEMP.		-40 ~ +55℃ (no derating); +70℃ @ 60% load by free air convection; +70℃ (no derating with external base plate)								
	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +85 °C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)								
	VIBRATION		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: compliance to IEC61373								
	SAFETY STANDARDS		Design refer to IEC60950-1, EN50155 (IEC60571)								
SAFETY &	WITHSTAND VOLTAGE		I/P-O/P:4KVDC I/P-FG:2.5KVDC O/P-FG:2.5KVDC								
EMC (Note 4)	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION		Compliance to EN55022 (CISPR22) Conduction Emission: Class A, Radiation Emission: Class B; EN50155(EN50121-3-2)								
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,6,8; ENV50204, EN50155(EN50121-3-2), light industry level, criteria A								
OTHERS	MTBF		254.1K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION		161*68*36mm (L*W*H)								
	PACKING		0.6Kg; 24pcs/15.4Kg/0.98CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 24,48,110VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. 										



