

# 100W Railway Single Output DC-DC Converter

CE pending



- Comply with EN50155 railway certificate
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temp. / Input polarity
- 4000VDC I/O isolation
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 36mm
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 years warranty

DC adjustment range	5V: 4.75~6.25V, 12V: 11.4~15V, 24V: 22.8~30V
Line regulation	±0.5% (max.)
Load regulation	±1% (max.)
Overload protection	105%~135% constant current limiting, recovers automatically after fault condition is removed
Over voltage protection	130%~150% Shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC
Isolation resistance	100MΩ( min.) @500VDC
Working temperature	-40°C ~ +70°C (refer to output derating curve)
Safety standards	Design refer to UL60950-1, TUV EN60950-1, EN50155
EMC standards	Design refer to EN55022 class B, EN50121-3-2, EN61000-4-2,3,4,6,8; ENV50204

Model No.	Input	Output	R&N	Effi.
RSD-100B	14.4~33.6V	5V, 0~20A	100mV	89%
		12V, 0~8.4A	120mV	89%
		24V, 0~4.2A	150mV	89%
RSD-100C	28.8~67.2V	5V, 0~20A	100mV	90%
		12V, 0~8.4A	120mV	91%
		24V, 0~4.2A	150mV	91%
RSD-100D	57.6~154V	5V, 0~20A	100mV	90%
		12V, 0~8.4A	120mV	91%
		24V, 0~4.2A	150mV	91%