

# DC/DC Converter 30W~500W Railway Single Output



30W, 60W & 500W now available!



RSD-300 RSD-200 RSD-150 RSD-100

## DC-DC Converter Features

- Compliance to EN50155, EN45545-2 railway standard
- 2:1 wide input range
- 4000VDC I/O isolation
- Protection: Short circuit / Overload / Over voltage/ Input reverse polarity / Over temperature (≥150W)
- Cooling by free air convection - **no fan!**
- Constant current limited output
- 1U low profile (smaller than SD range)
- Uses 105°C long-life electrolytic capacitors
- Half encapsulated (5G vibration)
- 100% full load burn-in tested
- 3 year warranty



## General Specifications (Please refer to [www.procontech.com.au](http://www.procontech.com.au) for detailed specs)

Model No.	RSD-100	RSD-150	RSD-200	RSD-300
Line regulation (max)	±0.5%			
Load regulation (max)	±1%			
Overload protection	Range	105~135%		
	Type	Constant current limiting, recovers automatically after fault condition is removed		
Over voltage protection	115~135% Shut down output voltage, re-power on to recover (5V output = 115~140%, see data sheet)			
Withstand voltage	I/P-O/P: 4KVDC, I/P-FG: 2.5KVDC, O/P-FG: 2.5KVDC			
Isolation resistance	100MΩ@500VDC			
Working temperature	-40°C ~ +70°C (refer to output derating curve)			
Safety standards	IEC62368-1 (LVD-Low Voltage Directive), EAC TP TC 004, <b>AS/NZS62368.1</b> approved			
EMC standards	EN55032 (CISPR32) class B, EN61000-4-2,3,4,5,6,8, EN55035, EAC TP TC 020			
Railway standards	<b>EN50155/IEC60571 including IEC61373 for shock &amp; vibration, EN50121-3-2 for EMC; EN45545-2 for fire protection</b>			
Dimensions (LxWxH)	161x68x36mm	189x77x36mm	191x86x40mm	216x97x40mm
Weight	0.56Kg	0.8Kg	0.94Kg	1.2Kg

30W & 60W units with 3.3V, 5V output, 12VDC input options now available! 500W 12V, 24V, 48V output units also available!

100W		RSD-100		
Model No.	Input*	Output	R&N	Eff.
RSD-100B-5	14.4~33.6V	5V, 0~20A	100mV	88.0%
RSD-100B-12	14.4~33.6V	12V, 0~8.4A	120mV	89.0%
RSD-100B-24	14.4~33.6V	24V, 0~4.2A	150mV	89.0%
RSD-100C-5	28.8~67.2V	5V, 0~20A	100mV	89.0%
RSD-100C-12	28.8~67.2V	12V, 0~8.4A	120mV	91.0%
RSD-100C-24	28.8~67.2V	24V, 0~4.2A	150mV	91.0%
RSD-100D-5	57.6~154V	5V, 0~20A	100mV	89.5%
RSD-100D-12	57.6~154V	12V, 0~8.4A	120mV	91.0%
RSD-100D-24	57.6~154V	24V, 0~4.2A	150mV	90.0%

Model No.	Input*	Output	R&N	Eff.
RSD-200C-48	28.8~67.2V	48V, 0~4.2A	180mV	91%
RSD-200D-12	57.6~154V	12V, 0~16.7A	120mV	91%
RSD-200D-24	57.6~154V	24V, 0~8.4A	150mV	91%
RSD-200D-48	57.6~154V	48V, 0~4.2A	180mV	91%

150W		RSD-150		
Model No.	Input*	Output	R&N	Eff.
RSD-150B-5	14.4~33.6V	5V, 0~30A	100mV	89%
RSD-150B-12	14.4~33.6V	12V, 0~12.5A	120mV	90%
RSD-150B-24	14.4~33.6V	24V, 0~6.3A	150mV	90%
RSD-150C-5	28.8~67.2V	5V, 0~30A	100mV	90%
RSD-150C-12	28.8~67.2V	12V, 0~12.5A	120mV	92%
RSD-150C-24	28.8~67.2V	24V, 0~6.3A	150mV	91%
RSD-150D-5	57.6~154V	5V, 0~30A	100mV	90%
RSD-150D-12	57.6~154V	12V, 0~12.5A	120mV	92%
RSD-150D-24	57.6~154V	24V, 0~6.3A	150mV	91%

300W		RSD-300		
Model No.	Input*	Output	R&N	Eff.
RSD-300B-5	14.4~33.6V	5V, 0~42A	100mV	89.0%
RSD-300B-12	14.4~33.6V	12V, 0~22.5A	120mV	89.5%
RSD-300B-24	14.4~33.6V	24V, 0~11.3A	150mV	90.0%
RSD-300B-48	14.4~33.6V	48V, 0~5.7A	180mV	91.5%
RSD-300C-5	28.8~67.2V	5V, 0~42A	100mV	90.5%
RSD-300C-12	28.8~67.2V	12V, 0~25A	120mV	91.0%
RSD-300C-24	28.8~67.2V	24V, 0~12.5A	150mV	91.5%
RSD-300C-48	28.8~67.2V	48V, 0~6.3A	180mV	92.0%
RSD-300D-5	57.6~154V	5V, 0~42A	100mV	90.0%
RSD-300D-12	57.6~154V	12V, 0~25A	120mV	91.5%
RSD-300D-24	57.6~154V	24V, 0~12.5A	150mV	91.5%
RSD-300D-48	57.6~154V	48V, 0~6.3A	180mV	91.5%
RSD-300E-5	21.6~50.4V	5V, 0~42A	100mV	88.0%
RSD-300E-12	21.6~50.4V	12V, 0~25A	120mV	90.0%
RSD-300E-24	21.6~50.4V	24V, 0~12.5A	150mV	91.0%
RSD-300E-48	21.6~50.4V	48V, 0~6.3A	180mV	91.0%
RSD-300F-5	43.2~100.8V	5V, 0~42A	100mV	89.0%
RSD-300F-12	43.2~100.8V	12V, 0~25A	120mV	91.0%
RSD-300F-24	43.2~100.8V	24V, 0~12.5A	150mV	91.0%
RSD-300F-48	43.2~100.8V	48V, 0~6.3A	180mV	91.5%

200W		RSD-200		
Model No.	Input*	Output	R&N	Eff.
RSD-200B-12	14.4~33.6V	12V, 0~16.7A	120mV	89%
RSD-200B-24	14.4~33.6V	24V, 0~8.4A	150mV	89%
RSD-200B-48	14.4~33.6V	48V, 0~4.2A	180mV	89%
RSD-200C-12	28.8~67.2V	12V, 0~16.7A	120mV	91%
RSD-200C-24	28.8~67.2V	24V, 0~8.4A	150mV	91%