



Features

- Compliance to EN50155 and EN45545-2 railway standard
- 4:1 wide input range (RSD-30/60)
2:1 wide input range (RSD-100/150)
- 4000VDC I/O isolation
- Protections: Short circuit / Overload /
Over voltage / **DC Input reverse polarity**
- Fanless design
- Built-in constant current limiting circuit
- Ultra compact and **1U** low profile
- All using 105°C long life electrolytic capacitors
- **Half encapsulated (5G vibration)**
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		RSD-30	RSD-60	RSD-100	RSD-150
DC input range		G: 9~36V, L: 18~72V, H: 40~160V		B: 16.8~31.2V, C: 33.6~62.4V, D: 67.2~143V	
Overload protection		105%~135% constant current limiting, recovers automatically after fault condition is removed			
Over voltage protection		115%~135% Shut down O/P voltage, re-power on to recover			115%~140%
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute			
Isolation resistance		100MΩ@500VDC			
Working temperature (min.)		-40~+70°C (refer to output derating curve)			
Safety standards	Industrial	CB IEC62368-1, UL62368-1, AS/NZS62368.1, EAC TP TC004			
	Railway	EN50155: 2007—Comply with S1 level(3ms) and S2 level (10ms), please refer to spec for load derating curve 2017—Comply with S1 level			
		IEC60571; EN45545-2			
EMC standards		EN55032 class B (class A for conduction), EN61000-3,-2,3, EN61000-4-2,3,4,5,6, EN50121-3-2		EN55032 class B (class A for conduction), EN61000-4-2,3,4,5,6,8, EAC TP TC 020, EN50121-3-2	
Dimension (LxWxH)(mm)		113x 60x 25	128x 60x 25	161x 68x 36	189x77x36

30W RSD-30

Model No.	Vin (VDC) (continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-30G-3.3	9~36	3.3	6	70	84
RSD-30G-5	9~36	5	6	70	84
RSD-30G-12	9~36	12	2.5	60	86.5
RSD-30G-24	9~36	24	1.25	50	89
RSD-30L-3.3	18~72	3.3	6	70	84
RSD-30L-5	18~72	5	6	70	86
RSD-30L-12	18~72	12	2.5	60	90
RSD-30L-24	18~72	24	1.25	50	91
RSD-30H-3.3	40~160	3.3	6	70	87
RSD-30H-5	40~160	5	6	70	87
RSD-30H-12	40~160	12	2.5	60	89
RSD-30H-24	40~160	24	1.25	50	89

60W RSD-60

Model No.	Vin (VDC) (continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-60G-3.3	9~36	3.3	12	60	86.5
RSD-60G-5	9~36	5	12	100	88
RSD-60G-12	9~36	12	5	50	92
RSD-60G-24	9~36	24	2.5	50	90
RSD-60L-3.3	18~72	3.3	12	60	88.5
RSD-60L-5	18~72	5	12	60	89
RSD-60L-12	18~72	12	5	50	93
RSD-60L-24	18~72	24	2.5	50	91.5
RSD-60H-3.3	40~160	3.3	12	80	87.5
RSD-60H-5	40~160	5	12	60	89
RSD-60H-12	40~160	12	5	50	92.5
RSD-60H-24	40~160	24	2.5	50	91.5

100W RSD-100

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-100B-5	14.4~33.6 / 16.8~31.2	5	20	100	88
RSD-100B-12	14.4~33.6 / 16.8~31.2	12	8.4	120	89
RSD-100B-24	14.4~33.6 / 16.8~31.2	24	4.2	150	89
RSD-100C-5	28.8~67.2 / 33.6~62.4	5	20	100	89
RSD-100C-12	28.8~67.2 / 33.6~62.4	12	8.4	120	91
RSD-100C-24	28.8~67.2 / 33.6~62.4	24	4.2	150	91
RSD-100D-5	57.6~154 / 67.2~143	5	20	100	89.5
RSD-100D-12	57.6~154 / 67.2~143	12	8.4	120	91
RSD-100D-24	57.6~154 / 67.2~143	24	4.2	150	90

150W RSD-150

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-150B-5	14.4~33.6 / 16.8~31.2	5	30	100	89
RSD-150B-12	14.4~33.6 / 16.8~31.2	12	12.5	120	90
RSD-150B-24	14.4~33.6 / 16.8~31.2	24	6.3	150	90
RSD-150C-5	28.8~67.2 / 33.6~62.4	5	30	100	90
RSD-150C-12	28.8~67.2 / 33.6~62.4	12	12.5	120	92
RSD-150C-24	28.8~67.2 / 33.6~62.4	24	6.3	150	91
RSD-150D-5	57.6~154 / 67.2~143	5	30	100	90
RSD-150D-12	57.6~154 / 67.2~143	12	12.5	120	92
RSD-150D-24	57.6~154 / 67.2~143	24	6.3	150	91



Features

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- 4000VDC I/O isolation
- Protections:
 - Short circuit / Overload / Over voltage /
 - DC input reverse polarity / Over temperature
- Fanless design
- Built-in constant current limiting circuit
- 1U low profile
- All using 105°C long life electrolytic capacitors
- Half encapsulated (5G vibration)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		RSD-200	RSD-300	RSD-500
DC input range		B: 16.8~31.2V, C: 33.6~62.4V, D: 67.2~143V, E: 25.2~46.8V, F: 50.4~93.6V		B: 16.8~33.6V, C: 33.6~67.2V, D: 67.2~154V
Line regulation (1 sec.)		±0.5%		
Load regulation (max.)		±1%		
Overload protection		105%~135% constant current limiting, recovers automatically after fault condition is removed		
Over voltage protection		115%~135% Shut down O/P voltage, re-power on to recover	115%~140%	120%~145%
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute		
Isolation resistance		100MΩ@500VDC		
Working temperature(min.)		-40~+70°C (refer to output derating curve)		-40~+80°C
Safety standards	Industrial	CB IEC62368-1, UL62368-1, AS/NZS62368.1, EAC TP TC004		
	Railway	EN50155: 2007—Comply with S1 level(3ms) and S2 level (10ms), please refer to spec for load derating curve		
		2017—Comply with S1 level		
		IEC60571; EN45545-2		
EMC standards		EN55032 class B, EN50121-3-2, EN61000-4-2,3,4,5,6,8, EN50121-3-2		
Dimension (LxWxH)(mm)		191x 86x 40	216x 96.5x 40	237x 100x 41

200W RSD-200

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-200B-12	14.4~33.6 / 16.8~31.2	12	16.7	120	89
RSD-200B-24	14.4~33.6 / 16.8~31.2	24	8.4	150	89
RSD-200B-48	14.4~33.6 / 16.8~31.2	48	4.2	180	89
RSD-200C-12	28.8~67.2 / 33.6~62.4	12	16.7	120	91
RSD-200C-24	28.8~67.2 / 33.6~62.4	24	8.4	150	91
RSD-200C-48	28.8~67.2 / 33.6~62.4	48	4.2	180	91
RSD-200D-12	57.6~154 / 67.2~143	12	16.7	120	91
RSD-200D-24	57.6~154 / 67.2~143	24	8.4	150	91
RSD-200D-48	57.6~154 / 67.2~143	48	4.2	180	91

300W RSD-300

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-300D-24	57.6~154 / 67.2~143	24	12.5	150	91.5
RSD-300D-48	57.6~154 / 67.2~143	48	6.3	180	91.5
RSD-300E-5	21.6~50.4 / 25.2~46.8	5	42	100	88
RSD-300E-12	21.6~50.4 / 25.2~46.8	12	25	120	90
RSD-300E-24	21.6~50.4 / 25.2~46.8	24	12.5	150	91
RSD-300E-48	21.6~50.4 / 25.2~46.8	48	6.3	180	91
RSD-300F-5	43.2~100.8 / 50.4~93.6	5	42	100	89
RSD-300F-12	43.2~100.8 / 50.4~93.6	12	25	120	91
RSD-300F-24	43.2~100.8 / 50.4~93.6	24	12.5	150	91
RSD-300F-48	43.2~100.8 / 50.4~93.6	48	6.3	180	91.5

300W RSD-300

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-300B-5	14.4~33.6 / 16.8~31.2	5	42	100	89
RSD-300B-12	14.4~33.6 / 16.8~31.2	12	22.5	120	89.5
RSD-300B-24	14.4~33.6 / 16.8~31.2	24	11.3	150	90
RSD-300B-48	14.4~33.6 / 16.8~31.2	48	5.7	180	91.5
RSD-300C-5	28.8~67.2 / 33.6~62.4	5	42	100	90.5
RSD-300C-12	28.8~67.2 / 33.6~62.4	12	25	120	91
RSD-300C-24	28.8~67.2 / 33.6~62.4	24	12.5	150	91.5
RSD-300C-48	28.8~67.2 / 33.6~62.4	48	6.3	180	92
RSD-300D-5	57.6~154 / 67.2~143	5	42	100	90
RSD-300D-12	57.6~154 / 67.2~143	12	25	120	91.5

500W NEW RSD-500

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-500B-12	14.4~16.8 / 16.8~33.6	12	35	100	92
RSD-500B-24	14.4~16.8 / 16.8~33.6	24	17.5	120	92
RSD-500B-48	14.4~16.8 / 16.8~33.6	48	8.8	150	92
RSD-500C-12	28.8~33.6 / 33.6~67.2	12	35	100	93
RSD-500C-24	28.8~33.6 / 33.6~67.2	24	19.2	120	93
RSD-500C-48	28.8~33.6 / 33.6~67.2	48	9.6	150	93
RSD-500D-12	57.6~67.2 / 67.2~154	12	35	100	93
RSD-500D-24	57.6~67.2 / 67.2~154	24	20.8	120	93
RSD-500D-48	57.6~67.2 / 67.2~154	48	10.4	150	93