

Наличие и актуальные цены на

RSD-500B-24

https://www.mean-well.ru/store/RSD-500B-24/





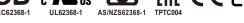












■ Features

- Compliance to BS EN/EN50155 and BS EN/EN45545-2 railway standard
- 1U low profile 41mm
- 2:1 wide input range
- Fanless design, half encapsulated, cooling by free air convection
- -40~+80°C wide operating temperature
- · DC output adjustable
- Protections: Short circuit / Overload / Over voltage /
 Over temperature / Input reverse polarity/
 Input under voltage protection
- 4KVdc I/O isolation(Reinforced isolation)
- Operating additude up to 5000 meters(Note.5)
- · LED indicator for power on
- · 3 years warranty

Pailway











Applications

- Bus,tram,metro or railway system
- · Industrial control system
- Semi-conductor fabrication equipment
- Factory automation
- Electro-mechanical
- · Wireless network
- · Telecom or datacom system
- Highly vibrating, highly dusty, extremely low or high temperature harsh environment

■ GTIN CODE

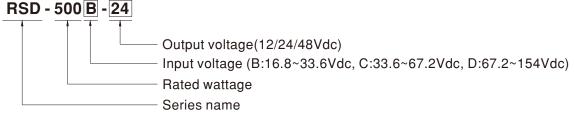
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

RSD-500 series is a 500W enclosed type reliable railway DC-DC converter. This series is compliant with BS EN/EN50155/BS EN/EN45545-2 railway standard, constituting three types of models with 2:1 wide but different input ranges 16.8~33.6V/33.6~67.2V/67.2~154V, suitable for railway and all kinds of transportation systems exploiting the frequently used standard input voltages such as 24V, 36V, 48V, 72V, 96V and 110V. Various output voltages, 12V, 24V and 48V are available for selection.

This series has the capability of working under -40° C, low ripple and noise, supreme EMC characteristics, 4KVdc I/O isolation, low enclosure profile 41mm and an interior with semi-potted silicone. It does not only well fits the in-car systems or the facilities by rails for railway, trams and buses but also can be used in the harsh environment with high vibration, high dust, extremely low or high temperature, etc.

■ Model Encoding





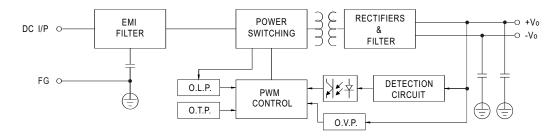
500W Enclosed Type Reliable Railway DC-DC Converter RSD-500 series

SPECIFICATION

		RSD-500B-12	RSD-500B-24	RSD-500B-48	RSD-500C-12	RSD-500C-24	RSD-500C-48	RSD-500D-12	RSD-500D-24	RSD-500D-48
OUTPUT	DC VOLTAGE	12V	24V	48V	12V	24V	48V	12V	24V	48V
	RATED CURRENT	35A	17.5A	8.8A	35A	19.2A	9.6A	35A	20.8A	10.4A
	CURRENT RANGE	0 ~ 35A	0 ~ 17.5A	0 ~ 8.8A	0 ~ 35A	0 ~ 19.2A	0 ~ 9.6A	0 ~ 35A	0 ~ 20.8A	0 ~ 10.4A
	RATED POWER	420W	420W	422.4W	420W	460.8W	460.8W	420W	499.2W	499.2W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	100mVp-p	120mVp-p	150mVp-p	100mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48~ 56V	12 ~ 14V	24 ~ 28V	48~ 56V	12 ~ 14V	24 ~ 28V	48~ 56V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	500ms, 60ms								
	HOLD UP TIME (Typ.)	Please refer to page 4 hold up time (Load de-rating curve)								
	VOLTAGE CONTINUOUS	16.8 ~ 33.6Vd	С		33.6 ~ 67.2Vdc			67.2 ~ 154Vdc		
	RANGE Note.4 1s	14.4 ~ 16.8Vd	lc		28.8 ~ 33.6V	dc		57.6 ~ 67.2V	dc	
INDUT	EFFICIENCY (Typ.)	92%	92%	92%	93%	93%	93%	93%	93%	93%
INPUT	DC CURRENT (Typ.)	21.5A @24Vd	dc		11A @48Vdc			5A @110Vdc		
	INRUSH CURRENT (Typ.)	30A								
	INTERRUPTION OF VOLTAGE SUPPLY	EN50155:201			evel (3ms)@ fu el (10ms)@ 70	II load; % load, D- type	comply with S2	level (10ms) @	full load	
	OVERLOAD	Constant curr	ent limiting 105	5~135% rated of	output power w	ith auto-recove	ry			
	OVER VOLTAGE		28.8 ~ 35V		14.4 ~ 17.5V		57.6 ~ 65V	14.4 ~ 17.5V	28.8 ~ 35V	57.6 ~ 65V
PROTECTION	OVER VOLIAGE	Protection typ	e : Shut down	o/p voltage, re	-power on to re	cover				
	OVER TEMPERATURE	Shut down o/p	voltage, re-po	wer on to reco	ver					
	REVERSE POLARITY	By internal, M	OSFET, no dar	mage, recovers	automatically	after fault cond	lition is remove	ed		
	UNDER VOLTAGE LOCKOUT	24Vin :Power	ON≥16.8V, OFF≤16.5V		48Vin :Power	ON≥33.6V, OFF≤33V		110Vin :Power	ON≥67.2V, OFF≤65V	
	WORKING TEMP.	-40 ~ +80°C (Refer to "Dera	ting Curve")				•		
	WORKING HUMIDITY	5 ~ 95% RH n	ion-condensing	3						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85, 5 ~	95% RH non-	condensing						
	TEMP. COEFFICIENT	±0.03%/°C ((0 ~ 55°C)							
	VIBRATION	Component:1	0 ~ 500Hz, 5G	10min./1cycle	, 60min. each a	along X, Y, Z ax	es; Mounting: (Compliance to	IEC61373	
	OPERATING ALTITUDE Note.5	Component:10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC61373 E Note.5 5000 meters / OVCII								
	SAFETY STANDARDS			S/NZS 62368-	1, EAC TP TC	004 approved,	Design refer to	BS EN/EN623	68-1	
	SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, II				004 approved,	Design refer to	BS EN/EN623	68-1	
	SAFETY STANDARDS	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F	EC 62368-1, A lc I/P-FG:2.5	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7				68-1	
	SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter	EC 62368-1, A lc I/P-FG:2.5	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 70 Standard	0% RH	Test Lev		68-1	
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted	EC 62368-1, A lc I/P-FG:2.5	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 70 Standard BS EN/EN550	0% RH 032 (CISRP32)	Test Lev Class A		68-1	
	SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN550 BS EN/EN550	0% RH 032 (CISRP32) 032 (CISRP32)	Test Lev Class A Class B		68-1	
SAFETY &	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicke	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 70 Standard BS EN/EN550	0% RH 032 (CISRP32) 032 (CISRP32)	Test Lev Class A		68-1	
SAFETY & EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic Cu	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN550 BS EN/EN550	0% RH 032 (CISRP32) 032 (CISRP32)	Test Lev Class A Class B		68-1	
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic CL BS EN/EN556	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7(Standard BS EN/EN550 BS EN/EN550 BS EN/EN611	0% RH 032 (CISRP32) 032 (CISRP32)	Test Lev Class A Class B	el / Note	68-1	
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flick Harmonic Ct BS EN/EN550 Parameter	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7: Standard BS EN/EN550 BS EN/EN61: Standard	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3	Test Lev Class A Class B Test Lev	el / Note		
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flick Harmonic Ct BS EN/EN550 Parameter ESD	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 70 Standard BS EN/EN550 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3	Class A Class B Test Lev Level 3, 8	el / Note el / Note 8KV air ; Level	3, 6KV contact;	; criteria A
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicke Harmonic CL BS EN/EN550 Parameter ESD Radiated	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61 BS EN/EN61 BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 7	el / Note el / Note BKV air ; Level IOV/m ; criteria	3, 6KV contact;	; criteria A
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicke Harmonic CL BS EN/EN550 Parameter ESD Radiated EFT / Burst	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7' Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 2 Level 3, 2	el / Note el / Note BKV air ; Level IOV/m ; criteria 2KV ; criteria A	3, 6KV contact,	
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicke Harmonic CL BS EN/EN55 Parameter ESD Radiated EFT / Burst Surge	EC 62368-1, A lc I/P-FG:2.5 G, O/P-FG:>10 er irrent	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7' Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5	Test Lev Class A Class B Test Lev Level 3, 2 Level 3, 14 Level 3, 14	el / Note el / Note SKV air ; Level 10V/m ; criteria A KV/Line-Line ;Lev	3, 6KV contact;	
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic CL BS EN/EN550 Parameter ESD Radiated EFT / Burst Surge Conducted	EC 62368-1, A Ic I/P-FG:2.5 G, O/P-FG:>10 er er urrent 035	KVdc O/P-F	G:2.5KVdc 0Vdc / 25°C / 7' Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6	Test Lev Class A Class B Test Lev Level 3, 2 Level 3, 14 Level 3, 4	el / Note el / Note BKV air ; Level 10V/m ; criteria A CV/Line-Line ;Lev 10V ; criteria A	3, 6KV contact; A /el 3, 2KV/Line-Li	
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic CL BS EN/EN550 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Fiel Compliance to	EC 62368-1, A Ic I/P-FG:2.5 G, O/P-FG:>10 er er urrent 035	6KVdc O/P-F 00M Ohms / 50	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN550 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 14 Level 3, 14 Level 3, 14 Level 4, 3	el / Note el / Note BKV air ; Level 10V/m ; criteria A cV/Line-Line ;Lev 10V ; criteria A 30A/m ; criteria	3, 6KV contact; A /el 3, 2KV/Line-Li	ine-FG ;criteria
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, II I/P-O/P:4KVd I/P-O/P; I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic CL BS EN/EN550 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Fiel Compliance to BS EN/EN50	EC 62368-1, A Ic I/P-FG:2.5 G, O/P-FG:>10 er Irrent 035 d D BS EN/EN455 121-3-2 for EM	545-2 for fire pr	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6 000-4-8 N/EN50155 / IE	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 2 Level 3, 1 Level 3, 2 Level 3, 1 Level 4, 3	el / Note el / Note BKV air ; Level 10V/m ; criteria A cV/Line-Line ;Lev 10V ; criteria A 30A/m ; criteria	3, 6KV contact; A /el 3, 2KV/Line-Li	ine-FG ;criteria
EMC	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY RAILWAY STANDARD	UL62368-1, II I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic CL BS EN/EN550 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Fiel Compliance to	EC 62368-1, A Ic I/P-FG:2.5 G, O/P-FG:>10 er Irrent 035 d D BS EN/EN455 121-3-2 for EM in. Telcord	545-2 for fire pr	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN550 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6 000-4-8 N/EN50155 / IE	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 14 Level 3, 14 Level 3, 14 Level 4, 3	el / Note el / Note BKV air ; Level 10V/m ; criteria A cV/Line-Line ;Lev 10V ; criteria A 30A/m ; criteria	3, 6KV contact; A /el 3, 2KV/Line-Li	ine-FG ;criteria
EMC (Note 6)	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY RAILWAY STANDARD MTBF	UL62368-1, II I/P-O/P:4KVd I/P-O/P;4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic Cu BS EN/EN55 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Fiel Compliance to BS EN/EN50 834.7K hrs m 237*100*41m	EC 62368-1, A Ic I/P-FG:2.5 G, O/P-FG:>10 er Irrent 035 d D BS EN/EN455 121-3-2 for EM in. Telcord	545-2 for fire pr IC ia SR-332 (Be	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6 000-4-8 N/EN50155 / IE	Test Lev Class A Class B Test Lev Level 3, 8 Level 3, 2 Level 3, 1 Level 3, 2 Level 3, 1 Level 4, 3	el / Note el / Note BKV air ; Level 10V/m ; criteria A cV/Line-Line ;Lev 10V ; criteria A 30A/m ; criteria	3, 6KV contact; A /el 3, 2KV/Line-Li	ine-FG ;criteria
EMC (Note 6)	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY RAILWAY STANDARD MTBF DIMENSION	UL62368-1, II I/P-O/P:4KVd I/P-O/P:4KVd I/P-O/P, I/P-F Parameter Conducted Radiated Voltage Flicket Harmonic Cu BS EN/EN55 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Fiel Compliance to BS EN/EN50 834.7K hrs m 237*100*41m 1.45Kg;10pc; Illy mentioned at 20MHz of tolerance, line ander low input erating of 3.5° ered as an incidence on how meanwell.com	d b BS EN/EN455 121-3-2 for EN in. Telcord im (L*W*H) s/15.5Kg/0.8Cl are measured of bandwidth by regulation an voltage. Pleas C/1000m with lependent unit to perform the	645-2 for fire principle in the control of the cont	G:2.5KVdc 0Vdc / 25°C / 7 Standard BS EN/EN556 BS EN/EN61 Standard BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN61 Otection; BS E Illcore); 99. at (B:24Vdc, Cowisted pair-wiron. erating curve f is and of 5°C / 1 equipment still s, please refer	0% RH 032 (CISRP32) 032 (CISRP32) 000-3-3 000-4-2 000-4-3 000-4-5 000-4-6 000-4-8 N/EN50155 / IE 1K hrs min. 0:48Vdc , D:11 re terminated v or more details 000m with fan need to re-cor to "EMI testing	Test Lev Class A Class B Test Level 3, 8 Level 3, 1 Level 3, 1 Level 3, 1 Level 4, 3 CC60571 includ MIL-HDBK-21 OVdc) , rated with a 0.1 \(\mu \) 8 a so in models for opnifirm that the vel of components	el / Note el / Note BKV air ; Level 10V/m ; criteria A 2KV ; criteria A 30A/m ; criteria A 30A/m ; criteria A 7F (25°C) load and 25°C 47µf parallel concerning altitude whole system of the power supplies.	3, 6KV contact; A vel 3, 2KV/Line-Li A for shock & vibr c of ambient te apacitor. e higher than2 complies with	ration,

■ Block Diagram

fosc: 67KHz



■ Input Fuse

There are two or three 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.

Type	Fuse Type	Reference and Rating
В	Time-Lag	WALTER WN 20, 20A, 500V *2
С	Time-Lag	Conquer MST, 10A, 250V *3
D	Time-Lag	Conquer MST, 10A, 250V *2

■ Input Reverse Polarity Protection

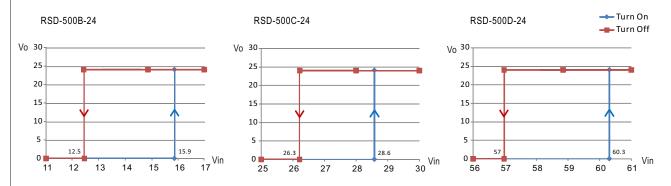
There is a MOSFET connected in series to the negative input line. If the input polarity is connected reversely, the MOSFET opens and there will be no output to protect the unit.

■ Input Range and Transient Ability

The series has a wide range input capability. Within ±30% of rated input voltage, it can be executed at full-load operation and operate properly; with \pm 40% of rated input voltage, it can withstand that for 1 second.

■ Input Under-Voltage Protection

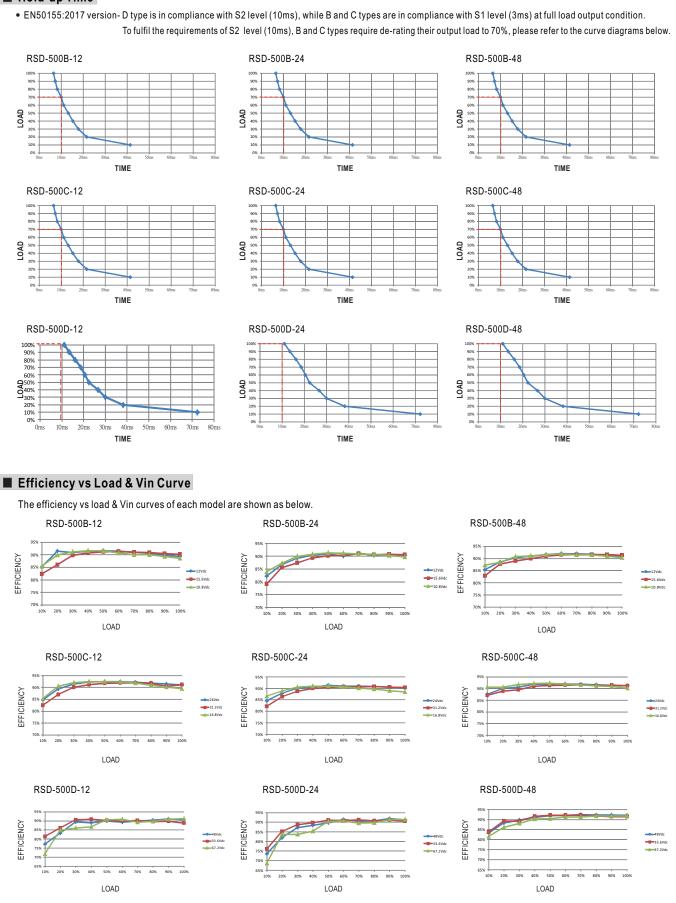
If input voltage drops below Vimin, the internal control IC shuts down and there is no output voltage. It recovers automatically when input voltage reaches above Vimin, please refer to the cruve below.



■ Inrush Current

Inrush current is suppressed by a resistor during the initial start-up, and then the resistor is bypassed by a Relay to reduce power consumption after accomplishing the start-up.

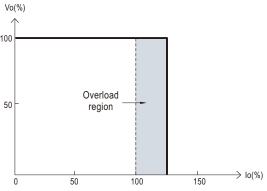
■ Hold-up Time





■ Overload Protection

If the output draw up to 105~135% of its output power rating, the converter will go into overload protection which is constant current mode. After the faulty condition is removed, it will recover automatically. Please refer to the diagram below for the detail operation characteristic. Please note that it's not suitable to operate within the overload region continuously, or it may cause to over temperature and reduce the life of the power supply unit or even damage it.



■ Over Voltage Protection

The converter shuts off to protect itself when the output voltage drawn exceeds 115~140% of its output rating. It must be repowered on to recover.

■ Over Temperature Protection

The converter shuts off to protect itself when the built-in temperature sensor mounted on the main power transformer senses a high temperature. It must be repowered on to recover.

■ LED Indicator

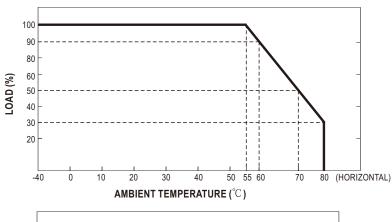
Equipped with a built-in LED indicator, the converter provides an easy way for users to check its condition through the LED indicator.

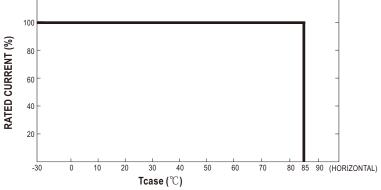
Green: normal operation; No signal: no power or failure.

■ Derating Curve

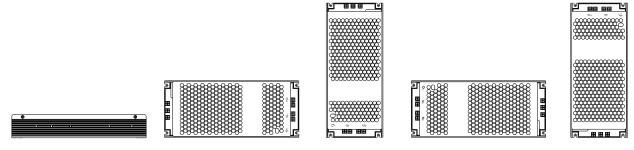
a.Single unit operation

If the unit has no iron plate mounted on its bottom, the maximum ambient temperature for the unit will be 55° C as operating under full load condition. It requires de-rating output current when ambient temperature is between $55 \sim 80^{\circ}$ C, please refer to the de-rating curve as below.



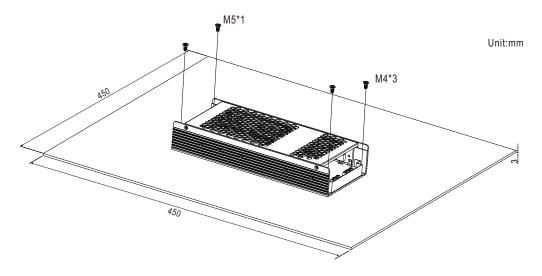


Suitable installation methods are shown as below. Since RSD-500 is a semi-potted model, its thermal performances for the following installation methods are similar and share the same derating curve.

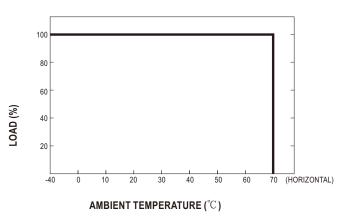


b. Operate with additional iron plate

If it is necessary to fulfil the requirements of EN50155 TX level that operate the unit fully-loaded at 70° C, RSD-500 series must be installed onto an iron plate on the bottom. The size of the suggested iron plate is shown as below. In order for optimal thermal performance, the iron plate must have an even & smooth surface and RSD-500 series must be firmly mounted at the center of the iron plate.

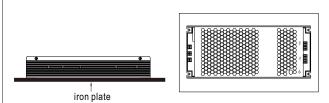


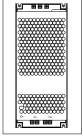
The load vs ambient temperature curve is shown as below.

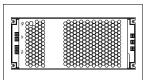


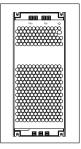
Suitable installation methods are shown as below. Since RSD-500 is a semi-potted model, its thermal performances for the following installation methods are similar and share the same derating curve.











■ Immunity to Environmental Conditions

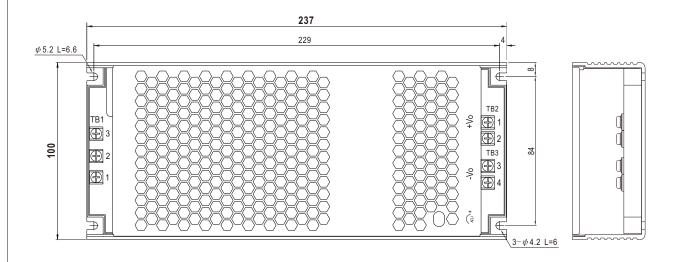
Test method	Standard	Test conditions	Status
Cooling Test	EN 50155 section 12.2.3 (Column 2, Class TX) EN 60068-2-1	Temperature: -40°C Dwell Time: 2 hrs/cycle	No damage
Dry Heat Test	EN 50155 section 12.2.4 (Column 2, Class TX) EN 50155 section 12.2.4 (Column 3, Class TX & Column 4, Class TX) EN 60068-2-2	Temperature: 70°C / 85°C Duration: 6 hrs / 10min	PASS
Damp Heat Test, Cyclic	EN 50155 section 12.2.5 EN 60068-2-30	Temperature: 25°C~55°C Humidity: 90%~100% RH Duration: 48 hrs	PASS
Vibration Test	EN 50155 section 12.2.11 EN 61373	Temperature: 19°C Humidity: 65% Duration: 10 mins	PASS
Increased Vibration Test	EN 50155 section 12.2.11 EN 61373	Temperature: 19°C Humidity: 65% Duration: 5 hrs	PASS
Shock Test	EN 50155 section 12.2.11 EN 61373	Temperature: $21\pm3^{\circ}\text{C}$ Humidity: $65\pm5\%$ Duration: $30\text{ms*}18$	PASS
Low Temperature Storage Test	EN 50155 section 12.2.3 (Column 2, Class TX) EN 60068-2-1	Temperature: -40°C Dwell Time: 16 hrs	PASS
Salt Mist Test	EN 50155 section 12.2.10 (Class ST4)	Temperature: 35°C ±2°C Duration: 48 hrs	PASS

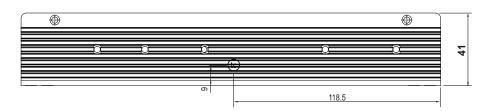
■ EN45545-2 Fire Test Conditions

Test Iter	ns		Hazard Level			
Items		Standard	HL1	HL2	HL3	
	Oxygen index test	EN 45545-2:2013 EN ISO 4589-2:1996	PASS	PASS	PASS	
R22	Smoke density test	EN 45545-2:2013 EN ISO 5659-2:2006	PASS	PASS	PASS	
	Smoke toxicity test	EN 45545-2:2013 NF X70-100:2006	PASS	PASS	PASS	
R24	Oxygen index test	EN 45545-2:2013 EN ISO 4589-2:1996	PASS	PASS	PASS	
R25	Glow-wire test	EN 45545-2:2013 EN 60695-2-11:2000	PASS	PASS	PASS	
R26	Vertical flame test	EN 45545-2:2013 EN 60695-11:2003	PASS	PASS	PASS	

■ Mechanical Specification

Case No.270C Unit:mm





• to : Max. Case Temperature

Input Terminal Pin No. Assignment (TB1)

Pin No.	Assignment		
1	DC input +Vin		
2	DC input -Vin		
3	FG ±		

Output Terminal Pin No. Assignment (TB2,TB3)

Assignment
DC output +Vo
DC output +Vo
DC output -Vo
DC output -Vo

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html