







Features

- 250~ 1500Vdc 6:1 ultra-wide input range
- · Withstand 1700Vdc surge input for 10 seconds
- 4KVac I/O high isolation(Reinforced isolation)
- Protections: Short circuit / Overload / Over voltage / Over temperature
 DC input under voltage / DC input reverse polarity
- Fanless design, half encapsulated, cooling by free air convection
- -40~+80°C ultra-wide operating temperature (>+55°C derating)
- Over voltage category II
- Operating altitude up to 5000 meters
- DC output voltage adjustable(12~15V, 24~29V, 30~36V, 48~58V)
- 1U low profile 41mm
- 3 years warranty















- Photovoltaic power generation
- Renewable Energy System
- · High voltage frequency conversion
- Industrial control system
- Semiconductor fabrication equipment
- Electro-mechanical apparatus
- · DC bus centralized application
- Energy storage system(ESS)
- · Charging pile
- Third rail

■ GTIN CODE

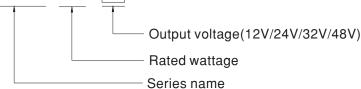
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

RSDH-300 series is a $250 \sim 1500 \text{Vdc}$ ultra-high input enclosed type DC-DC converter which can supply stable working voltage for the load. Main features are as following: $-40 \sim +80 \circ \text{C}$ wide range operating temperature, 4KVac high isolation voltage, operation at 5000m altitude, high efficiency, low ripple & noise, complete protections and so on.

RSDH-300 is compliant with BS EN/EN-61000-6-2 standard regarding immunity for industrial environments. It is suitable for industrial automation, surveillance, telecommunication and can be widely deployed in the applications of new energy generation such as solar power, and windmill power generation, for instances, photovoltaic power systems, high voltage inverting, DC bus centralized application, ESS, charging pile, railway and so forth.

■ Model Encoding RSDH - 300 - 24

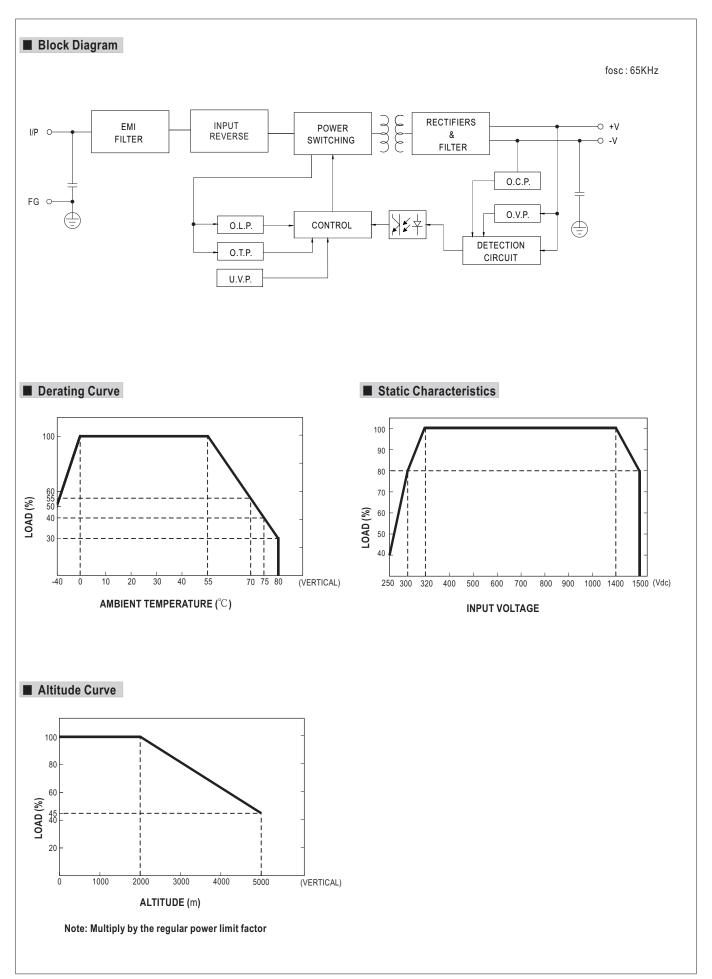




SPECIFICATION

MODEL		RSDH-300-12	RSDH-300-24	RSDH-300-3	2	RSDH-300-48	
DC VOLTAGE		12V	24V	32V		48V	
RATED CURRENT		20A	12.5A	9.37A		6.25A	
CURRENT RANGE		0 ~ 20A	0 ~ 12.5A	0 ~ 9.37A		0 ~ 6.25A	
RATED POWER		240W	300W	300W		300W	
RIPPLE & NOISE (m	ax.) Note.2	120mVp-p	240mVp-p	240mVp-p		300mVp-p	
,		12 ~ 15V	24 ~ 29V	30 ~ 36V		48 ~ 58V	
				±1.0%		±1.0%	
						±0.5%	
						±1.0%	
						2000 μ F	
,							
	1		88%	88%		91%	
EFFICIENCY (Typ.)						91%	
						87%	
INRUSH CURRENT				1			
. ,							
EXTERNALINI	1002						
OVERLOAD							
		Constant current limiting, recovers automatically after fault condition is removed, within 55% ~ 100% rated output voltages.					
		16.5 ~ 21V	33 ~ 42V	40 ~ 48V		62 ~ 70V	
OVER VOLTAGE					emoved	1	
OVER TEMPERATU	RF	71 1 1	· · · · · · · · · · · · · · · · · · ·				
REVERSE PO							
DC INPUT							
	DE EUGINOUT						
		, , ,					
		· · · · · · · · · · · · · · · · · · ·					
		I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:2KVAC					
ISOLATION RESIST	ANCE	,					
						!	
EMC EMISSION		Conducted	BS EN/EN55032(CISPR32)		Class A		
		Radiated	BS EN/EN55032(CISPR32)		Class A		
		BS EN/EN55035, BS EN/EN61000-	6-2				
EMC (Note.6)		Parameter	Standard		Test Level /Note		
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A		
		Radiated Susceptibility	BS EN/EN61000-4-3		Level 3, 10V, criteria A		
EMC IMMUNITY		EFT/Burest	BS EN/EN61000-4-4		Level 3, 2KV, criteria A		
		Surge	BS EN/EN61000-4-5		Level 4, 2KV/Vin+ ~ Vin-, 4KV Vin~FG		
		Conducted	BS EN/EN61000-4-6		Level 3, 10V, criteria A		
		Magnetic Field	BS EN/EN61000-4-8		Level 4, 30A, criteria A		
MTBF		277.9K hrs min. Telcordia SR-332 (Bellcore); 99.1K hrs min. MIL-HDBK-217F (25°C)					
		237*100*41mm (L*W*H)					
PACKING		1.1Kg;10pcs/12.7Kg/0.8CUFT					
 All parameters NOT specially mentioned are measured at 800Vdc 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 0.1 μf & 47 μf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							
	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (M VOLTAGE ADJ. RAN VOLTAGE TOLERAN LINE REGULATION LOAD REGULATION EXTERNAL CAPACITANCI VOLTAGE RANGE EFFICIENCY (Typ.) INRUSH CURRENT EXTERNAL INPUT OVERLOAD OVER VOLTAGE OVER TEMPERATU DC INPUT REVERSE PO UNDER VOLTAGE VORKING HUMIDIT STORAGE TEMP., WORKING HUMIDIT STORAGE TEMP., VIBRATION OPERATING ALTITU OVER VOLTAGE CA SAFETY STANDARI WITHSTAND VOLTA ISOLATION RESIST EMC EMISSION MTBF DIMENSION PACKING 1. All parameters 2. Ripple & noise 3. Tolerance: incl 4. Derating may b 5. The ambient te 2000m(6500ft). 6. The power suppl EMC directives.	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION EXTERNAL CAPACITANCE LOAD (Max.) VOLTAGE RANGE VOLTAGE RANGE Note.4 EFFICIENCY (Typ.) SOVERLOAD OVER VOLTAGE OVER TEMPERATURE DC INPUT REVERSE POLARITY UNDER VOLTAGE LOCKOUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OPERATING ALTITUDE Note.5 OVER VOLTAGE ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION PACKING 1. All parameters NOT spec 2. Ripple & noise are meast 3. Tolerance : includes set L 4. Derating may be needed 5. The ambient temperature 2000m(6500ft). 6. The power supply is consid EMC directives. For guidan EMC directives. For guidan	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE 12V 24V 32V 32V RATED CURRENT RANGE 0 ~ 20A 12.5A 9.37A 300W 300W	DC VOLTAGE 12V	







■ Mechanical Specification Case No.270D Unit:mm 237 229 ψ 5.2 L=6.6 (₫ **®** 100 4

Input Terminal Pin No. Assignment (TB1)

Pin No.	Assignment		
1	+Vin		
2	-Vin		

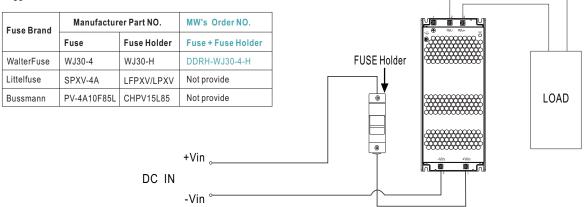
Output Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1	FG ≟
2	-Vo
3	+Vo

■ External FUSE wiring instruction

External FUSE is required. FUSE specification: 4A/1500Vdc.

Suggested model:



■ Installation Manual

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

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