











- 250~ 1500Vdc 6:1 ultra-wide input range
- · Withstand 1700Vdc surge input for 10 seconds
- 63mm slim width
- 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, cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- -40~+80°C ultra-wide operating temperature (>+50°C derating)
- · Over voltage category II
- · Operating altitude up to 5000 meters
- · DC OK relay contact
- DC output voltage adjustable(12~15V, 24~29V, 30~36V, 48~58V)
- · Conformal coating
- 3 years warranty

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Applications

- · 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

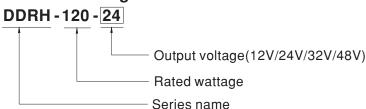
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

DDRH-120 series is a $250 \sim 1500 \text{Vdc}$ high reliable ultra-high input DIN rail type DC-DC converter which can supply stable working voltage for the load. It is suitable to be mounted on TS-35/7.5 or 15 rails. Main features are as following: easy to install DIN rail type, narrow width(63mm) in slim design, $-40 \sim +80 °$ C wide range operating temperature, 4KVac high isolation voltage, operation at 5000m altitude, high efficiency, low ripple & noise, complete protections and so on.

DDRH-120 is compliant with UL1741 and BS EN/EN61000-6-2 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.



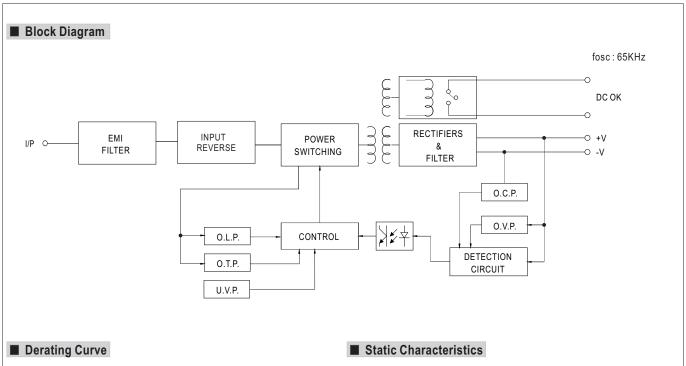


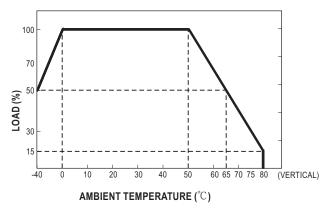


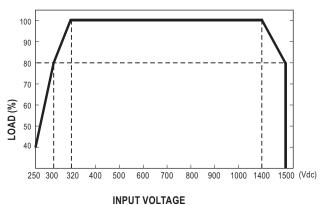
SPECIFICATION

MODEL			DDRH-120-12	DDRH-120-24	DDRH-120-	32	DDRH-120-48	
	DC VOLTAGE		12V	24V	32V		48V	
	RATED CURRENT		8.4A	5A	3.75A		2.5A	
	CURRENT RANGE		0 ~ 8.4A	0 ~ 5A	0 ~ 3.75A		0 ~ 2.5A	
	RATED POWER		100.8W	120W	120W		120W	
	RIPPLE & NOISE (max.) Note.2			240mVp-p	240mVp-p		300mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE		12 ~ 15V	24 ~ 29V	30 ~ 36V		48 ~ 58V	
	VOLTAGE TOLERANCE Note.3		-	±1.0%	±1.0%		±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%		±0.5%	
	LOAD REGULATION		±1.5%	±1.5%	±1.0%		±1.0%	
	EXTERNAL CAPACITANCE LOAD (Max.		1 111	2500 μ F	2000 μ F		1000 μ F	
	VOLTAGE RANGE Note.4			2000 μ Ι	2000 μ Ι		1000 μ1	
	VOLIAGE RANGE	300Vdc	88%	89%	90%		91%	
	EFFICIENCY (Typ.)	800Vdc	87%	90%	91%		91%	
INPUT		1500Vdc		86%	87%		87%	
	INRUSH CURRENT (max.)		COLD START 300A /1500V	dc 200A/800Vdc 70A/	250Vdc			
	EXTERNAL INPUT FUSE		4A/1500VDC, required(Please refer to page 4 for more details)					
	OVERLOAD		105 ~ 135% rated output power					
			Protection type: Hiccup mode when output voltage<55%, recovers automatically after condition is removed;					
			Constant current limiting, recovers automatically after fault condition is removed within 55% ~ 100% rated output voltage					
PROTECTION			16.5 ~ 21V	33 ~ 42V	40 ~ 48V		62 ~ 70V	
	OVER VOLTAGE		Protection type : Hiccup mode,	recovers automatically after	fault condition is rem	oved		
	OVER TEMPERATUI	RE	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	REVERSE POLARITY		By internal Bridge Diode, no damage, recovers automatically after fault condition removed					
	DC INPUT UNDER VOLTAGE LOCKOUT							
FUNCTION	DC OK SIGNAL		Relay contact rating(max.): 30V / 1A resistive					
	WORKING TEMP.		-40 ~ +80°C (Refer to "Derating Curve")					
	WORKING HUMIDIT	Υ	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT		±0.03%°C (0~50°C)					
	VIBRATION		Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6					
	OPERATING ALTITUDE Note.5		5000m					
	OVER VOLTAGE CATEGORY		OVC II 2000m; According to EN62109-1					
	SAFETY STANDARDS		UL1741, CSA C22.2 No.107.1-16, IEC62109-1, BS EN/EN62109-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC I/P-FG:3.75KVAC O/P-FG:2KVAC O/P-DC OK:0.5KVAC					
	ISOLATION RESISTANCE		I/P-O/P, 100M Ohms / 500VDC	:/25°C/70% RH				
			Parameter	Standard		Test Level / Note	!	
	EMC EMISSION		Conducted	BS EN/EN55032(CISPR32	2)	Class A		
0.4.5553/.0	Ziiio Ziiiiooioit		Radiated	BS EN/EN55032(CISPR32	2)	Class A		
SAFETY &			BS EN/EN55035, BS EN/EN61000-6-2					
EMC (Note.7)			Parameter	Standard		Test Level /Note		
,	EMC IMMUNITY		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		
			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, criteria A		
			Conducted	BS EN/EN61000-4-6		Level 3, 10V, criteria A		
			Magnetic Field	BS EN/EN61000-4-8		Level 4, 30A, cri	teria A	
OTHERS	MTBF		257.2 Khrs min. MIL-HDBK-217F (25°C); 1596.3 Khrs min. Telcordia TR/SR-332 (Bellcore) (25°C)					
	DIMENSION		63*125.2*115mm (W*H*D)					
	PACKING		0.845Kg; 12pcs/12.6Kg/1.02CUFT					
NOTE	 2000m(6500ft). 6. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded per full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 						7µF parallel capacitor. rating altitude higher than en loaded permanently with e-confirmed that it still meets	
	Product Liability Disclaimer		: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

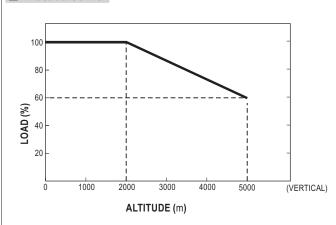








■ Altitude Curve



Note: Multiply by the regular power limit factor

■ DC OK Relay Contact

Contact Close	PSU turns ON / DC OK.		
Contact Open	PSU turns OFF / DC Fail.		
Contact Ratings (max.)	30V/1A resistive load.		

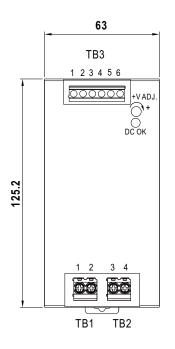


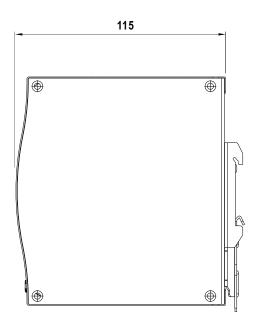
■ Mechanical Specification

(Unit: mm , tolerance ± 1mm) Case No. 979

Terminal Pin No. Assignment (TB3)

Pin No.	Assignment	
1,2	DC OK Relay Contact	
3,4	-Vo	
5,6	+Vo	





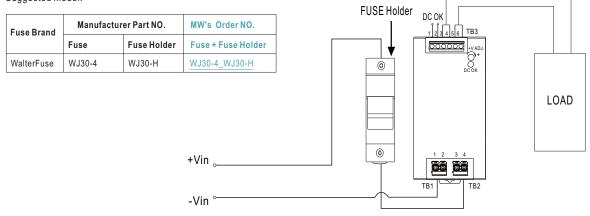
Terminal Pin No. Assignment (TB1,TB2)

Pin No.	Assignment
1,2	-Vin
3,4	+Vin

■ External FUSE wiring instruction

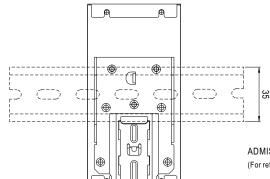
External FUSE is required. FUSE specification: 4A/1500Vdc.







■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN rail:TS35/7.5 OR TS35/15 (For reference only. Not included with unit.)

■ Installation Manual

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