







Features

- 150~ 1500Vdc 10:1 ultra wide input range
- 57mm 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
- -30~+80°C ultra-wide operating temperature (>+55°C derating)
- Over voltage category II
- · Operating altitude up to 5000 meters
- · DC OK relay contact
- DC output voltage adjustable(+20%)
- Full encapsulated
- 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

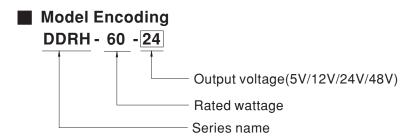
■ GTIN CODE

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

Description

DDRH-60 series is a 150 ~ 1500Vdc 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 TS-35/15 rails. Main features are as following: easy to install DIN rail type, narrow width(57mm) in slim design, -30~+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-60 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 and so forth.



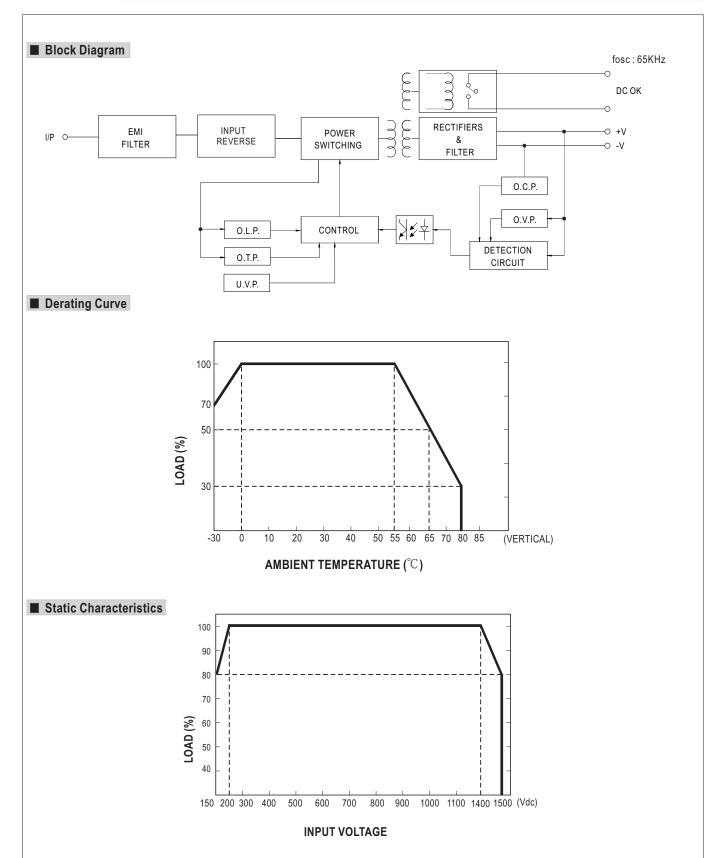


60W High Reliable 150~1500Vdc Ultra Wide Input DIN Rail Type DC-DC Converter DDRH-60 series

SPECIFICATION

MODEL			DDRH-60-5	DDRH-60-12	DDRH-60-24	ļ	DDRH-60-48	
	DC VOLTAGE		5V	12V	24V		48V	
OUTPUT	RATED CURRENT		10A	5A	2.5A		1.25A	
	CURRENT RANGE		0 ~ 10A	0 ~ 5A	0 ~ 2.5A		0 ~ 1.25A	
	RATED POWER		50W	60W	60W		60W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	150mVp-p		200mVp-p	
	VOLTAGE ADJ. RANGE		5 ~ 6V	12 ~ 15V	24 ~ 29V		48 ~ 54V	
	VOLTAGE TOLERANCE Note.3		±1.5%	±1.5%	±1.0%		±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%		±0.5%	
	LOAD REGULATION		±1.5%	±0.5%	±0.5%		±0.5%	
	EXTERNAL CAPACITANCE LOAD (Max.			4000 μ F	2500 μ F		1000 μ F	
INPUT	VOLTAGE RANGE Note.4		150 ~ 1500Vdc					
	VOLIAGE RANGE			000/	000/		070/	
	EFFICIENCY (Typ.)	200Vdc	80%	83%	86%		87% 88%	
		800Vdc 1500Vdc	81%	85% 81%	87% 84%		83%	
	INDUSH CHEDENT			1	1		03 /0	
	OVERLOAD		COLD START 120A/1500Vdc 80A/800Vdc 30A/150Vdc					
			105 ~ 135% rated output power					
			Protection type: Hiccup up 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.					
	OVER VOLTAGE					ii is removed Withi		
PROTECTION			6.6 ~ 8.4V	16.5 ~ 21V	30 ~ 38V		55 ~ 60V	
			Protection type : Hiccup up mo	,				
	OVER TEMPERATURE		Protection type: Hiccup up mode, recovers automatically after fault condition is removed					
	DC INPUT		By internal Bridge Diode, no damage, recovers automatically after fault condition removed					
	UNDER VOLTAGE LOCKOUT		ygg					
FUNCTION	DC OK SIGNAL Relay contact rating(max.): 30V / 1A resistive							
	WORKING TEMP.		-30 ~ +80°C (Refer to "Derating Curve")					
	WORKING HUMIDITY		20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT		±0.03%/°C (0~55°C)					
	VIBRATION		Component: 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6					
	OPERATING ALTITUDE Note.5		5000 meters /OVC II					
	OVER VOLTAGE CATEGORY		II ; According to EN62109-1; altitude up to 5000 meters					
	SAFETY STANDARDS		UL1741, CSA C22.2 No.107.1-16, IEC62109-1(LVD), EAC TP TC 004 approved					
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC O/P-DC OK:0.5KVAC					
	ISOLATION RESISTANCE		I/P-O/P. 100M Ohms / 500VDC / 25°C / 70% RH					
	IOOLATION REGISTANCE		Parameter	Standard		Test Level / Note	1	
			Conducted	BS EN/EN55032(CISP	PR32)	Class A	•	
	EMC EMISSION EMC IMMUNITY			,				
			Radiated	BS EN/EN55032(CISP	'R32)	Class A		
SAFETY &			Voltage Flicker BS EN/EN61000-3-3					
EMC			BS EN/EN55035, BS EN/EN610					
(Note.7)			Parameter	Standard		Test Level /Not		
			ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A		
OTHERS			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-, criteria A		
			Conducted	BS EN/EN61000-4-6		Level 3, 10V, criteria A		
			Magnetic Field	BS EN/EN61000-4-8		Level 4, 30A, criteria A		
			Voltage Dips and interruptions	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTBF		454.5K hrs min. MIL-HDBK-217F (25°C); 1439.7K hrs min. Telcordia TR/SR-332 (Bellcore) (25°C)					
	DIMENSION		57*93.5*105mm (W*H*D)					
	PACKING		0.8Kg; 16pcs/12.8Kg/0.84CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 600Vdc 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 0.1μF & 47μF 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). Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it is meets 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) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							





■ DC OK Relay Contact

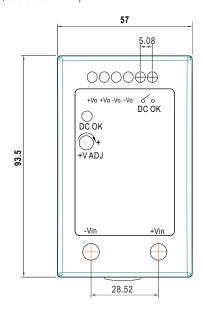
Contact Close	PSU turns ON / DC OK.		
Contact Open	PSU turns OFF / DC Fail.		
Contact Ratings (max.)	30V/1A resistive load.		

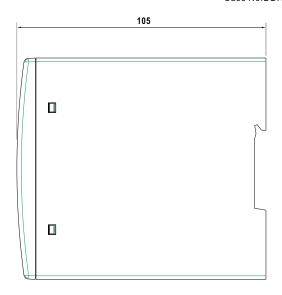


■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

Case No.DDRH-60

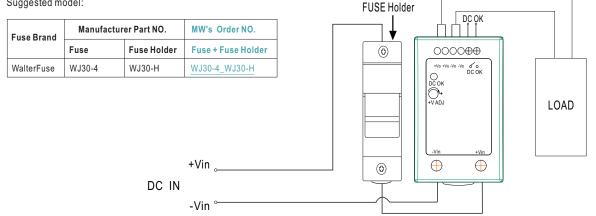




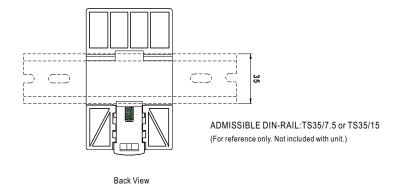
■ External FUSE wiring instruction

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





■ Installation Instruction



■ Installation Manual

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