



Наличие и актуальные цены на

DDRH-60-24

<https://www.mean-well.ru/store/DDRH-60-24/>



User's Manual



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

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.

Model Encoding

DDRH - 60 - 24

Output voltage(5V/12V/24V/48V)

Rated wattage

Series name

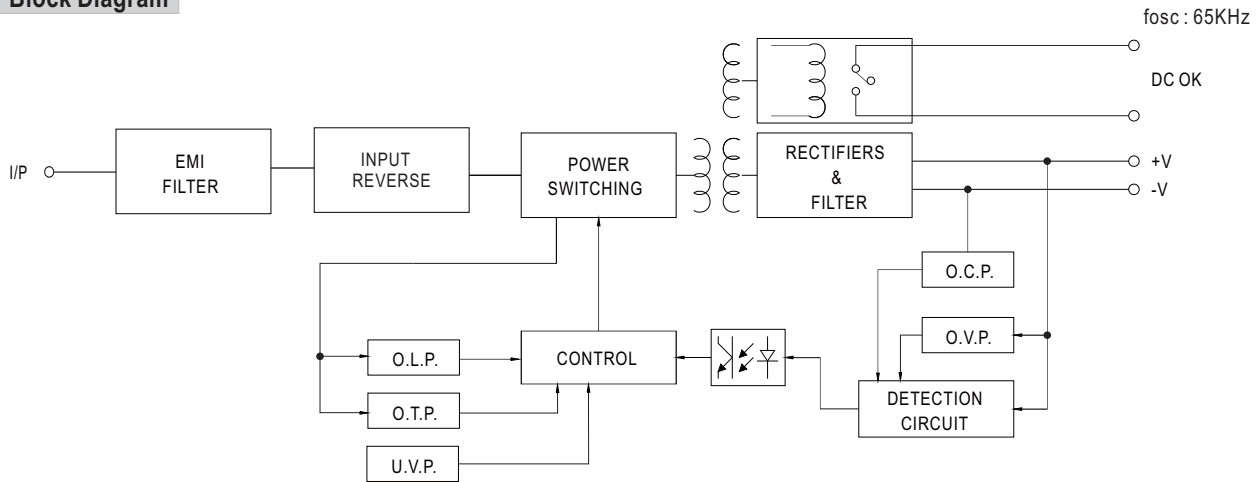


60W High Reliable 150~1500Vdc Ultra Wide Input DIN Rail Type DC-DC Converter **DDRH-60** series

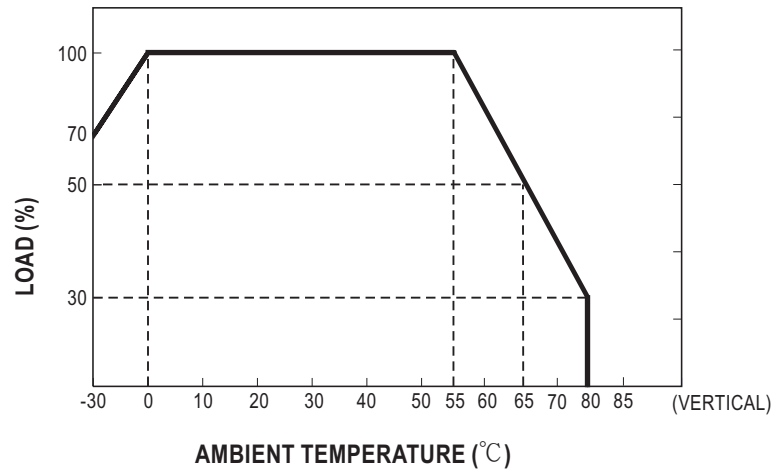
SPECIFICATION

MODEL		DDRH-60-5		DDRH-60-12		DDRH-60-24		DDRH-60-48			
OUTPUT	DC VOLTAGE	5V		12V		24V		48V			
	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.)		6000 μ F		4000 μ F		2500 μ F		1000 μ F			
INPUT	VOLTAGE RANGE Note.4		150 ~ 1500Vdc								
	EFFICIENCY (Typ.)	200Vdc	80%	83%	86%	87%					
		800Vdc	81%	85%	87%	88%					
		1500Vdc	76%	81%	84%	83%					
INRUSH CURRENT (max.)		COLD START 120A/1500Vdc 80A/800Vdc 30A/150Vdc									
PROTECTION	OVERLOAD		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		6.6 ~ 8.4V	16.5 ~ 21V	30 ~ 38V	55 ~ 60V					
			Protection type : Hiccup up mode, recovers automatically after fault condition is removed								
	OVER TEMPERATURE		Protection type : Hiccup up mode, recovers automatically after fault condition is removed								
	DC INPUT	REVERSE POLARITY	By internal Bridge Diode, no damage, recovers automatically after fault condition removed								
UNDER VOLTAGE LOCKOUT		Under voltage protection range:120 ~ 130Vdc , Under voltage release range:130 ~ 146.5Vdc									
FUNCTION	DC OK SIGNAL		Relay contact rating(max.) : 30V / 1A resistive								
ENVIRONMENT	WORKING TEMP.		-30 ~ +80℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +80℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT		± 0.03%/℃ (0 ~ 55℃)								
	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℃ / 70% RH									
SAFETY & EMC (Note.7)	EMC EMISSION		Parameter	Standard			Test Level / Note				
			Conducted			BS EN/EN55032(CISPR32)			Class A		
			Radiated			BS EN/EN55032(CISPR32)			Class A		
			Voltage Flicker			BS EN/EN61000-3-3			-----		
	EMC IMMUNITY		BS EN/EN55035, BS EN/EN61000-6-2								
			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		
			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				
OTHERS	MTBF		454.5K hrs min. MIL-HDBK-217F (25℃); 1439.7K hrs min. Telcordia TR/SR-332 (Bellcore) (25℃)								
	DIMENSION		57*93.5*105mm (W*H*D)								
	PACKING		0.8Kg; 16pcs/12.8Kg/0.84CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 600Vdc input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 6. 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. 7. 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 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										

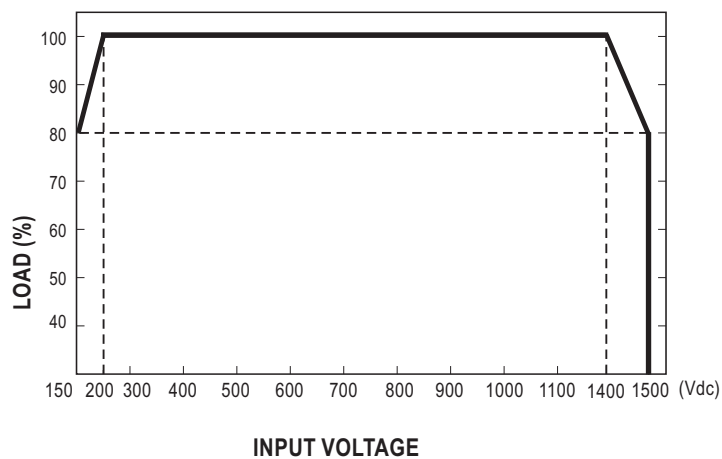
Block Diagram



Derating Curve



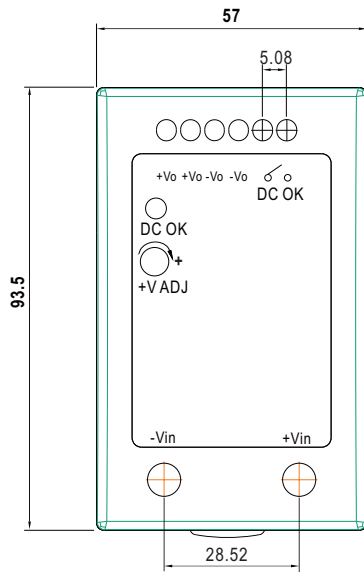
Static Characteristics



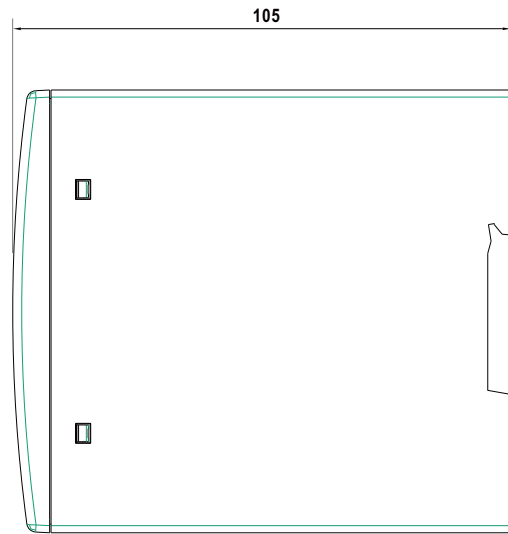
DC OK Relay Contact

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

Mechanical Specification



Case No.DDRH-60 Unit:mm

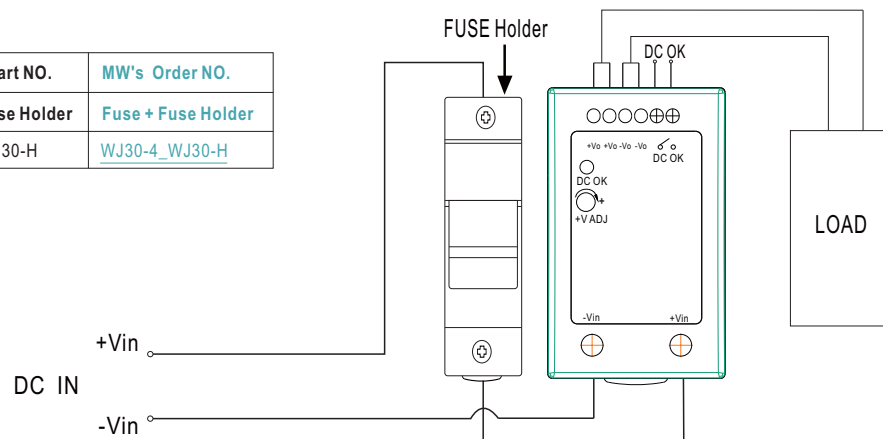


External FUSE wiring instruction

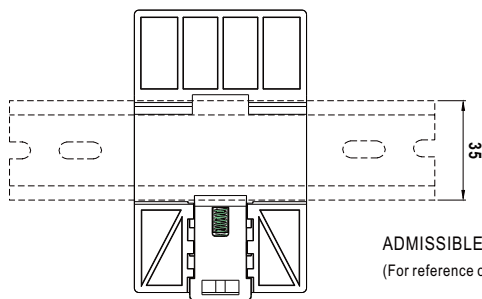
External FUSE is required.FUSE specification : 4A/1500Vdc.

Suggested model:

Fuse Brand	Manufacturer Part NO.		MW's Order NO.
	Fuse	Fuse Holder	Fuse + Fuse Holder
WalterFuse	WJ30-4	WJ30-H	WJ30-4_WJ30-H



Installation Instruction



Back View

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>