



Наличие и актуальные цены на

DDR-30L-12

<https://www.mean-well.ru/store/DDR-30L-12/>



Feature

- Width only 35mm (2SU)
- 4:1 ultra wide input range
- -40~+85°C wide working temperature
- No minimum load required
- DC output adjustable ($\pm 10\%$)
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Protections: Short circuit / Overload / Over voltage /
Input reverse polarity /
Input under voltage protection
- 4KVdc I/O isolation(Reinforced isolation)
- 3 years warranty

Description

DDR-30 series is a 30W DIN Rail type DC-DC converter with main features including DIN rail-type easy installation, ultra slim width (35mm), 4:1 ultra wide input voltage, -40~+85°C wide operating temperature, 4KVdc I/O isolation, adjustable output voltage ($\pm 10\%$) and full protective functions...etc.

This series has two input options: 9~36V / 18~75V and various output options: 5V / 12V / 15V / 24V and can be used for industrial control, security control, communication system and other fields. Suitable applications are DC buck/boost regulator, increasing system insulation level and voltage drop compensation along cable...etc.

Model Encoding

DDR - 30 G - 24

Output voltage(5/12/15/24Vdc)

Input voltage (G: 9~36Vdc, L: 18~75Vdc)

Rated wattage

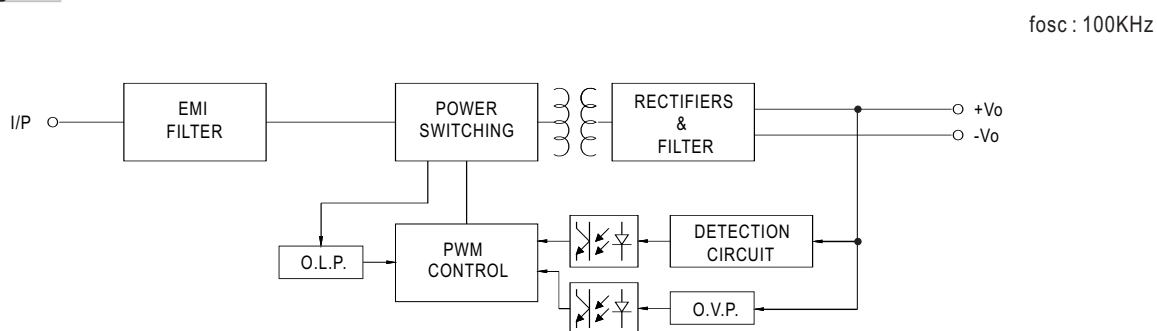
Series name



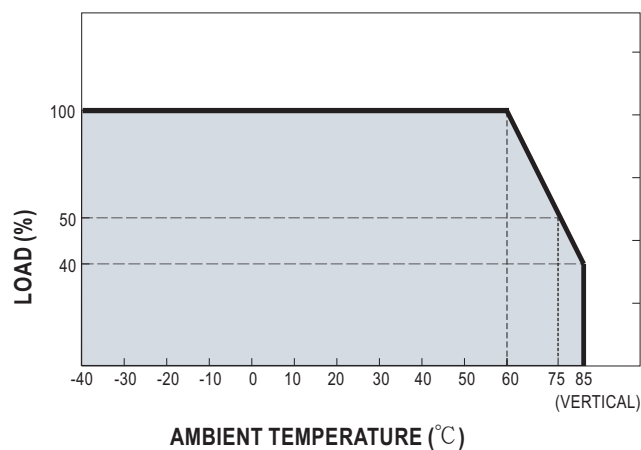
SPECIFICATION

MODEL		DDR-30G-5	DDR-30G-12	DDR-30G-15	DDR-30G-24	DDR-30L-5	DDR-30L-12	DDR-30L-15	DDR-30L-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	5V	12V	15V	24V
	RATED CURRENT	6A	2.5A	2A	1.25A	6A	2.5A	2A	1.25A
	CURRENT RANGE	0 ~ 6A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.25A	0 ~ 6A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.25A
	RATED POWER	30W	30W	30W	30W	30W	30W	30W	30W
	RIPPLE & NOISE (max.) Note.2	60mVp-p	75mVp-p	75mVp-p	100mVp-p	60mVp-p	75mVp-p	75mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	9 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 28V	4.5 ~ 5.5V	9 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 28V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.5%	±0.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	120ms, 85ms at full load							
HOLD UP TIME (Typ.)	G-type: 7ms@24Vdc input					L-type: 18ms@48Vdc input			
EXTERNAL CAPACITANCE LOAD (Max.)	3300 μ F	2200 μ F	1500 μ F	1000 μ F	3300 μ F	2200 μ F	1500 μ F	1000 μ F	
INPUT	VOLTAGE RANGE Note.4	9 ~ 36Vdc				18 ~ 75Vdc			
	EFFICIENCY (Typ.)	85%	86%	87%	89%	86%	89%	90%	91%
	DC CURRENT (Typ.)	1.5A/24Vdc				0.8A/48Vdc			
	INRUSH CURRENT (Typ.)	15A/24Vdc				15A/48Vdc			
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	5.75 ~ 7V	13.8 ~ 16.2V	17.25 ~ 20.25V	28.8 ~ 34V	5.75 ~ 7V	13.8 ~ 16.2V	17.25 ~ 20.25V	28.8 ~ 34V
		Protection type : Shut down o/p voltage, re-power on to recover							
	REVERSE POLARITY	By internal MOSFET, no damage, recovers automatically after fault condition removed							
	UNDER VOLTAGE LOCKOUT	24Vin (G-type):Power ON $\geq$ 9V , OFF $\leq$ 8.5V 48Vin (L-type):Power ON $\geq$ 18V , OFF $\leq$ 17V							
ENVIRONMENT	WORKING TEMP.	-40 ~ +85 $^{\circ}$ C (Refer to "Derating Curve")							
	WORKING HUMIDITY	5 ~ 95% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85 $^{\circ}$ C, 5 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	$\pm$ 0.03%/ $^{\circ}$ C (0 ~ 60 $^{\circ}$ C)							
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING ALTITUDE	5000 meters							
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL/IEC 62368-1 ,AS/NZS 62368.1 approved; Design refer to UL508							
	WITHSTAND VOLTAGE	I/P-O/P:4KVdc							
	ISOLATION RESISTANCE	I/P-O/P>100M Ohms / 500Vdc / 25 $^{\circ}$ C / 70% RH							
	EMC EMISSION	Parameter			Standard		Test Level / Note		
		Conducted			BS EN/EN55032		Class B		
		Radiated			BS EN/EN55032		Class B		
		Voltage Flicker			BS EN/EN61000-3-3		-----		
	EMC IMMUNITY	BS EN/EN55024 , BS EN/EN61000-6-2(BS EN/EN50082-2)							
		Parameter			Standard		Test Level / Note		
		ESD			BS EN/EN61000-4-2		Level 3, 8KV air ; Level 3, 6KV contact; criteria A		
		Radiated			BS EN/EN61000-4-3		Level 3, 10V/m ; criteria A		
		EFT / Burst			BS EN/EN61000-4-4		Level 3, 2KV ; criteria A		
		Surge			BS EN/EN61000-4-5		Level 3, 1KV/Line-Line ; criteria A		
		Conducted			BS EN/EN61000-4-6		Level 3, 10V ; criteria A		
		Magnetic Field			BS EN/EN61000-4-8		Level 4, 30A/m ; criteria A		
OTHERS	MTBF	483.3K hrs min. MIL-HDBK-217F (25 $^{\circ}$ C)							
	DIMENSION	35*90*54.5mm (W*H*D)							
	PACKING	0.12Kg;96pcs/12.5Kg/1.1CUFT							
NOTE	1. All parameters NOT specially mentioned are measured at normal input (G:24Vdc, L:48Vdc), rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf 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 power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the 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) 6. 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). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

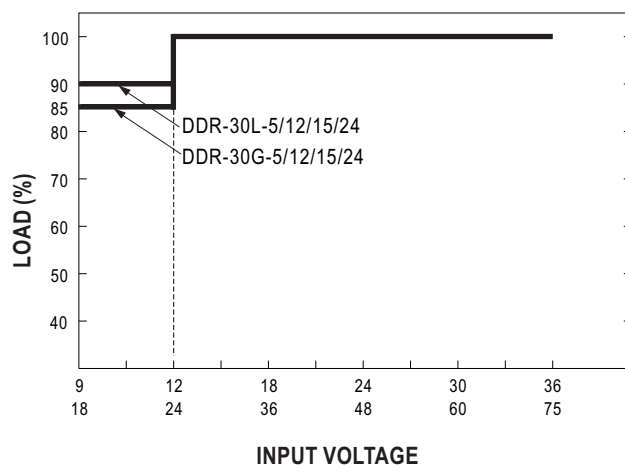
Block Diagram



Derating Curve

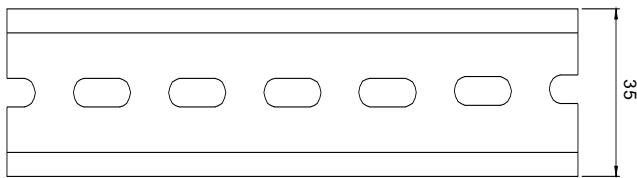
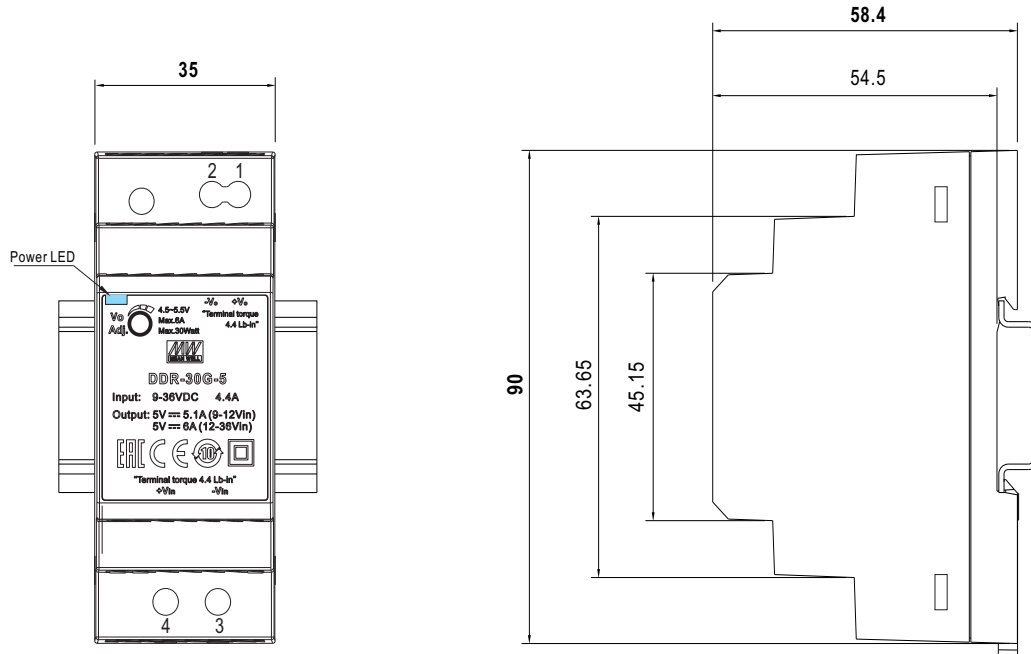


Output derating VS input voltage



Mechanical Specification

(Unit: mm , tolerance $\pm 0.5\text{mm}$)



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment
1	DC Output +Vo
2	DC Output -Vo
3	DC Input -Vin
4	DC Input +Vin

Installation Manual

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