



ERI C€

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









Applications

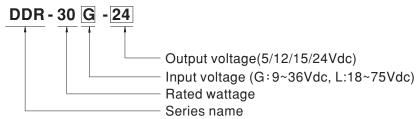
- · Industrial control system
- Semi-conductor fabrication equipment
- Factory automation
- · Electro-mechanical
- · Wireless network
- · Telecom or datacom system

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, $-40 \sim +85^{\circ}\text{C}$ 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





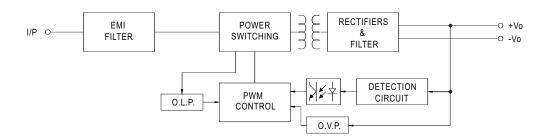
SPECIFICATION

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	
	DC VOLTAGE	5V	12V	15V	24V	5V	12V	15V	24V	
ОИТРИТ	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%	
	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	3300 µF	2200 µF	1500 µF	1000 µF	3300 µF	2200 µF	1500 µF	1000 µF	
	VOLTAGE RANGE Note.4	9 ~ 36Vdc	2200 μ1	1000 μ1	1000 #1	18 ~ 75Vdc	2200 μ1	1000 μ1	1000 μ1	
INPUT PROTECTION		85%	86%	87%	89%	86%	89%	90%	91%	
	EFFICIENCY (Typ.)		00%	87%	09%		0970	90%	91%	
	DC CURRENT (Typ.)		1.5A /24Vdc 0.8A /48Vdc							
	INRUSH CURRENT (Typ.)	15A /24Vdc 15A /48Vdc								
	OVERLOAD		ed output power							
				1	vers automaticall	í	lition is removed		1	
	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	
			: Shut down o/p							
	REVERSE POLARITY	By internal MOSFET, no damage, recovers automatically after fault condition removed								
	UNDER VOLTAGE LOCKOUT	24Vin (G-type):Power ON≥9V , OFF≤8.5V								
	ONDER VOLINGE EGGROOT	48Vin (L-type):Power ON≥18V , OFF≤17V								
ENVIRONMENT	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	5 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 5 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)								
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
	OPERATING ALTITUDE	2000 meters								
	SAFETY STANDARDS	IEC 62368-1 (LVD) approved, Design refer to UL508								
	WITHSTAND VOLTAGE	I/P-O/P:4KVdc								
	ISOLATION RESISTANCE	I/P-O/P>100M Ohms / 500Vdc / 25°C / 70% RH								
	EMC EMISSION	Parameter Standard Test Level / Note								
		Conducted		EN	N55032		Class B			
		Radiated		EN	EN55032 Class B					
0.4.5571/.0		Voltage Flicker		EN	61000-3-3					
SAFETY & EMC		EN55024 , EN61000-6-2(EN50082-2)								
(Note 5)	EMC IMMUNITY	Parameter		St	Standard		Test Level / Note			
		ESD		EN	EN61000-4-2		Level 3, 8KV air ; Level 3, 6KV contact; criteria A			
		Radiated		EN	61000-4-3		Level 3, 10V/m ; criteria A			
		EFT / Burst		EN	EN61000-4-4		Level 3, 2KV ; criteria A			
		Surge		EN	:N61000-4-5		Level 3, 1KV/Line-Line; criteria A			
		Conducted					evel 3, 10V ; criteria A			
							evel 4, 30A/m ; criteria A			
	MTBF	483.3K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	35*90*54.5mm (W*H*D)								
	PACKING	0.12Kg;96pcs/12.5Kg/1.04CUFT								
NOTE	Ripple & noise are measured. Tolerance : includes set updated. Derating may be needed. The power supply is constituted that the EMC directives. For good (as available on http://www.	cially mentioned are measured at normal input (G:24Vdc, L:48Vdc), rated load and 25°C of ambient temperature. sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. d under low input voltage. Please check the derating curve for more details. Insidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."								

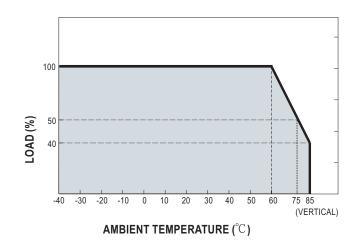


■ Block Diagram

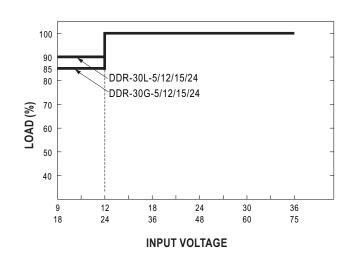
fosc: 100KHz



■ Derating Curve



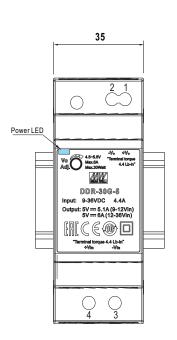
■ Output derating VS input voltage

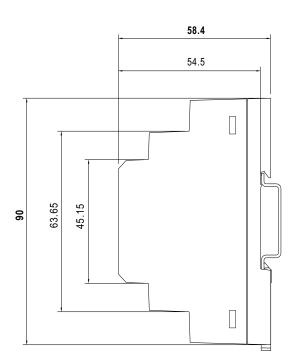


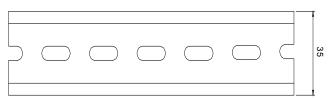


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

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