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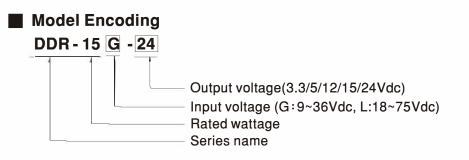
Feature

- Width only 17.5mm (1SU)
- 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-15 series is a 15W DIN Rail type DC-DC converter with main features including DIN rail-type easy installation, ultra slim width (17.5mm), 4: 1 ultra wide input voltage, $-40 \sim +85^{\circ}$ wide operating temperature, 4KVdc I/O isolation, adjustable output voltage (± 10%) and full protective functions...etc.

This series has two input options: 9~36V /18~75V and various output options: 3.3V / 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.





Applications

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



SPECIFICATION

MODEL		DDR-15G-3.3	DDR-15G-5	DDR-15G-12	DDR-15G-15	DDR-15G-24		
	DC VOLTAGE	3.3V	5V	12V	15V	24V		
	RATED CURRENT	3.5A	3A	1.25A	1A	0.63A		
OUTPUT	CURRENT RANGE	0~3.5A	0~3A	0~1.25A	0~1A	0~0.63A		
	RATED POWER	11.6W	15W	15W	15W	15W		
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	60mVp-p	75mVp-p	100mVp-p		
	VOLTAGE ADJ. RANGE	3.0~3.6V	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%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.5%	±1%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	120ms. 85ms at full load						
	HOLD UP TIME (Typ.)	G-type: 8ms@24Vdc input						
	EXTERNAL CAPACITANCE LOAD (Max.)	3300 µ F				680 µ F		
	VOLTAGE RANGE Note.4	9 ~ 36Vdc						
NDUT	EFFICIENCY (Typ.)	84%	84%	85%	85%	86%		
INPUT	DC CURRENT (Typ.)	0.8A/24Vdc						
	INRUSH CURRENT (Typ.)	15A/24Vdc						
		110 ~ 150% rated output power						
	OVERLOAD			rs automatically after fault	condition is removed			
	OVER VOLTAGE	3.8~4.7V	5.75 ~ 7V	13.8 ~ 16.2V	17.25 ~ 20.25V	28.8 ~ 32.4V		
DOTECTION			0.00 00			1		
PROTECTION	REVERSE POLARITY	Protection type : Shut down o/p voltage, re-power on to recover By internal MOSFET, no damage, recovers automatically after fault condition removed						
	UNDER VOLTAGE LOCKOUT	Power ON≥9V, OFF≤8.5V						
	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")						
		5 ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 5 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)						
	VIBRATION	±0.03%/C (0 ~ 60 C) 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							
	WITHSTAND VOLTAGE	IEC 62368-1 (LVD) ,AS/NZS 62368.1 approved; Design refer to UL508						
	ISOLATION RESISTANCE		500)/do / 25°C / 70%	рц				
	IOULATION REDIGIANUL	I/P-O/P>100M Ohms / 500Vdc / 25°C / 70% RH Parameter Standard Test Level / Note						
				Class B	.e			
	EMC EMISSION	Radiated		EN55032	Class B			
SAFETY &		Voltage Flicker EN61000-3-3 EN55024 , EN61000-6-2(EN50082-2)						
EMC	EMC IMMUNITY		-2(EN0002-2)	Standard	Tost I aval / Nota			
Note 5)								
				EN61000-4-2		el 3, 8KV air ; Level 3, 6KV contact; criteria A		
				EN61000-4-3	Level 3, 10V/m ; criteria A			
				Level 3, 2KV ; criteria				
		Surge						
		Conducted		EN61000-4-6	Level 3, 10V ; criteria			
		Magnetic Field EN61000-4-8 Level 4, 30A /m ; criteria A						
	MTBF	907K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	17.5*90*54.5mm (W*H*D)						
	PACKING	68g; 160pcs/12Kg/1.19CUFT						
NOTE	 Ripple & noise are measured. Tolerance : includes set ured. Derating may be needed The power supply is constitute EMC directives. For g (as available on http://www.supple. 	cially mentioned are measured at 24VDC input, rated load and 25° C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ f & 47 μ f parallel capacitor. up tolerance, line regulation and load regulation. under low input voltage. Please check the derating curve for more details. sidered 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." w.meanwell.com) e derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than						



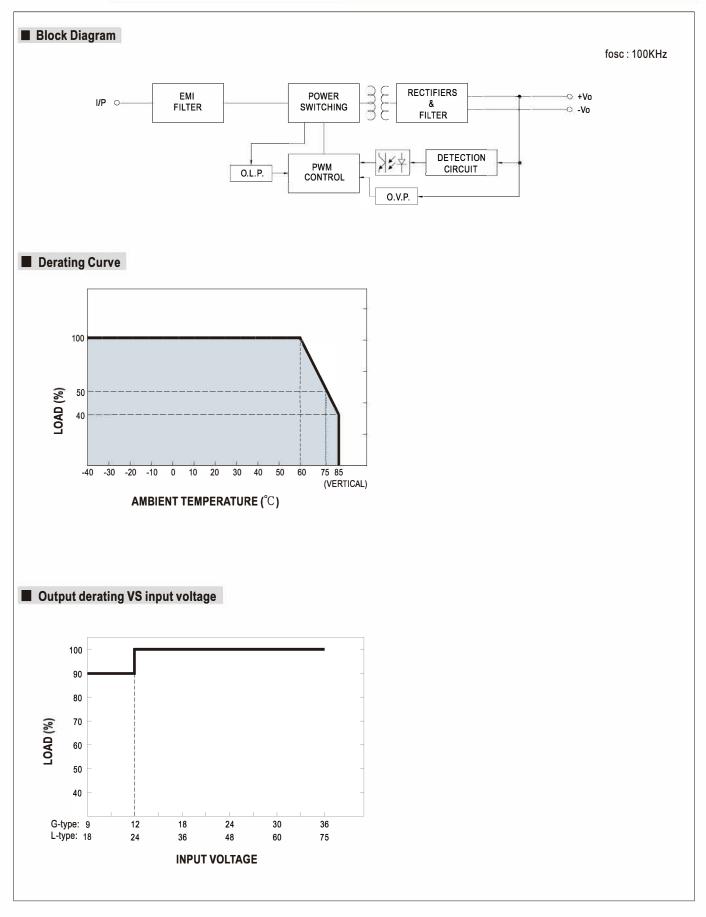
SPECIFICATION

MODEL		DDR-15L-3.3	DDR-15L-5	DDR-15L-12	DDR-15L-15	DDR-15L-24		
	DC VOLTAGE	3.3V	5V	12V	15V	24V		
	RATED CURRENT	4.5A	3A	1.25A	1A	0.63A		
	CURRENT RANGE	0~4.5A	0~3A	0~1.25A	0~1A	0~0.63A		
OUTPUT	RATED POWER	15W	15W	15W	15W	15W		
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	60mVp-p	75mVp-p	100mVp-p		
	VOLTAGE ADJ. RANGE	3.0~3.6V	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%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.5%	±1%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	120ms, 85ms at full lo			_0000			
	HOLD UP TIME (Typ.)	L-type: 16ms@48Vdc input						
	EXTERNAL CAPACITANCE LOAD (Max.)	3300 µ F	3300 µ F	1200 µ F	1200 µ F	680 µ F		
	VOLTAGE RANGE Note.4	18 ~ 75Vdc						
	EFFICIENCY (Typ.)	84%	85%	86%	86%	87%		
NPUT	DC CURRENT (Typ.)	0.4A /48Vdc						
	INRUSH CURRENT (Typ.)	15A /48Vdc						
		110 ~ 150% rated output power						
	OVERLOAD			ers automatically after faul	t condition is removed			
ROTECTION		3.8 ~ 4.7V	5.75 ~ 7V	13.8 ~ 16.2V	17.25 ~ 20.25V	28.8~32.4V		
	OVER VOLTAGE	Protection type : Shut		1				
	REVERSE POLARITY	••	·	· · · · · · · · · · · · · · · · · · ·	lition removed			
	UNDER VOLTAGE LOCKOUT	By internal MOSFET, no damage, recovers automatically after fault condition removed Power ON≥18V, OFF≤17V						
	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")						
		5 ~ 95% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 5 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%°C (0 ~ 60°C)						
	VIBRATION	±0.03%/C (0~60 C) 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) ,AS/NZS 62368.1 approved; Design refer to UL508						
	WITHSTAND VOLTAGE	I/P-O/P:4KVdc		oved, Designificiento DESOC				
	ISOLATION RESISTANCE							
		I/P-O/P>100M Ohms / 500Vdc / 25°C / 70% RH Parameter Standard Test Level / Note						
	EMC EMISSION			EN55032	Class B			
				EN55032	Class B Class B			
				EN61000-3-3				
SAFETY &		Voltage Flicker EN61000-3-3 EN55024 , EN61000-6-2(EN50082-2)						
MC	EMC IMMUNITY	Parameter	0-2(LINJ0002-2)	Standard	Test Level / Note			
(Note 5)				EN61000-4-2				
		Radiated		EN61000-4-2	Level 3, 8KV air ; Level 3, 6KV contact; criteria			
				EN61000-4-3	Level 3, 10V/m ; criteria A			
		EFT / Burst			Level 3, 2KV ; criteria A			
		•		EN61000-4-5	Level 3, 1KV/Line-Line ; criteria A			
				EN61000-4-6	Level 3, 10V ; criteria A			
	MEDE	Magnetic Field EN61000-4-8 Level 4, 30A/m ; criteria A						
	MTBF	907K hrs min. MIL-HDBK-217F (25°C)						
DTHERS	DIMENSION	17.5*90*54.5mm (W*H*D)						
	PACKING	68g; 160pcs/12Kg/1.19CUFT						
NOTE	 Ripple & noise are measu Tolerance : includes set u Derating may be needed The power supply is cons the EMC directives. For g (as available on http://www 	becally mentioned are measured at 48VDC input, rated load and $25^{\circ}C$ of ambient temperature. Assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ f & 47 μ f parallel capacitor. He up tolerance, line regulation and load regulation. He under low input voltage. Please check the derating curve for more details. A onsidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with or guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." A www.meanwell.com) ure derating of $3.5^{\circ}C/1000m$ with fanless models and of $5^{\circ}C/1000m$ with fan models for operating altitude higher that						

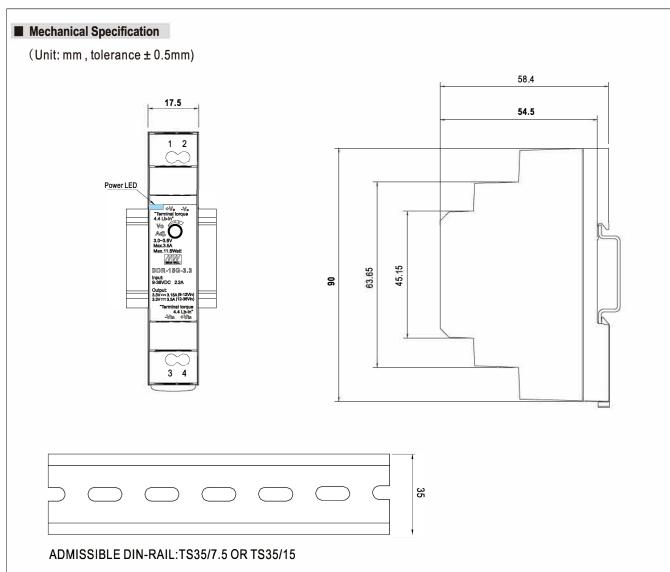


15W DIN Rail Type DC-DC Converter

DDR-15 series







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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