



Convertitore CC-CC da 15W per guida DIN

DDR 1 serie



Caratteristica M

- Larghezza di soli 17,5 mm (1SU)
- Campo di ingresso ultra ampio 4:1
- Temperatura di esercizio compresa tra -40 e +85° C Nessun carico minimo richiesto
- Uscita DC regolabile (+ 10%)
- Raffreddamento per convezione ad aria libera
- Può essere installato su guida DIN TS-35/7,5 o 15 Protezioni:
 - Cortocircuito / Sovraccarico / Sovraccarico di tensione / Inversione di polarità in ingresso / Protezione da sottotensione in ingresso
 - Isolamento I/O 4KVdc (isolamento rinforzato)
 - 3 anni di garanzia

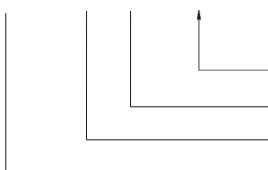
Descrizione del prodotto

La serie DDR-15 è un convertitore CC-CC da 15W su guida DIN con caratteristiche principali quali la facilità di installazione su guida DIN, la larghezza ultra sottile (17,5 mm), la tensione di ingresso ultra ampia 4: 1, la temperatura di funzionamento ampia -40 +85° C, l'isolamento I/O a 4KVdc, la tensione di uscita regolabile (+ 10%) e le funzioni di protezione complete... ecc.

Questa serie dispone di due opzioni di ingresso: 9-36V / 18-75V e varie opzioni di uscita: 3,3V / 5V / 12V / 15V / 24V e può essere utilizzata per il controllo industriale, il controllo di sicurezza, il sistema di comunicazione e altri campi. Le applicazioni più adatte sono il regolatore buck/boost DC, l'aumento del livello di isolamento del sistema e la compensazione della caduta di tensione lungo il cavo... ecc.

Codifica del modello

DDR - 15 G - 24



Tensione di uscita (3,3/5/12/15/24Vdc)

Tensione di ingresso (G : 9-36Vdc, L:18-75Vdc)

Potenza nominale

Nome della serie



M Applicazioni

- Sistema di controllo industriale
- Apparecchiature per la produzione di semiconduttori
- Automazione di fabbrica
- Elettromeccanica Rete wireless
- Sistema di telecomunicazione o datacom



15W DIN Rail Type DC-DC Converter

DDR-15 series

SPECIFICATION

MODEL	DDR-15G-3.3	DDR-15G-5	DDR-15G-12	DDR-15G-15	DDR-15G-24									
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V 24V									
	RATED CURRENT	3.5A	3A	125A	1A 0.63A									
	CURRENT RANGE	0 ~ 3.5A	0 ~ 3A	0 ~ 1.25A	0 ~ 1A 0 ~ 0.63A									
	RATED POWER	11.6W	15W	15W	15W									
	RIPLLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	60mVp-p	75mVp-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%									
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%									
	LOAD REGULATION	±1.5%	±1%	±0.5%	±0.5%									
	SETUP, RISE TIME	120ms, 85ms at full load												
INPUT		G-type: 8ms@24Vdc input												
	EXTERNAL CAPACITANCE LOAD (Max.)	3300 μF	3300 μF	1200 μF	1200 μF 680 μF									
	Note.4	9 ~ 36Vdc												
	EFFICIENCY (Typ.)	84%	84%	85%	85% 86%									
		0.8A/24Vdc												
	INRUSH CURRENT (Typ.)	16A/24Vdc												
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed												
	OVERVOLTAGE	3.8~ 4.7V	5.75~ 7V	13.8~ 16.2V	17.25~ 20.25V 28.8~ 32.4V									
	REVERSE POLARITY	Protection type : Shut down o/p voltage, re-power on to recover												
	UNDER VOLTAGE LOCKOUT	By internal MOSFET, no damage, recovers automatically after fault condition removed Power ON ≥ 9V, OFF ≤ 8.5V												
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												
SAFETY & EMC (Note 5)	OPERATING ALTITUDE	2000 meters												
	SAFETY STANDARDS													
	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	EN55032	Class B										
		Radiated	EN55032	Class B										
		Voltage Flicker	EN61000-3-3	----										
	EMC IMMUNITY	EN55024 , EN61000-6-2(EN50082-2)												
		Parameter	Standard	Test Level / Note										
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 3, 6KV contact; criteria A										
		Radiated	EN61000-4-3	Level 3, 10V/m ; criteria A										
		EFT / Burst	EN61000-4-4	Level 3, 2KV ; criteria A										
		Surge	EN61000-4-5	Level 3, 1KV/Line-Line ; criteria A										
		Conducted	EN61000-4-6	Level 3, 10V ; criteria A										
OTHERS	Magnetic Field	EN61000-4-8	Level 4, 30A/m ; criteria A											
	MTBF	907K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION													
NOTE	PACKING	68g; 160pcs/12Kg/1.19CUFT												
	1. All parameters NOT specially mentioned are measured at 24VDC input, 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 0.1 μf & 47 μf 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).													



15W DIN Rail Type DC-DC Converter

DDR-15 series

SPECIFICATION

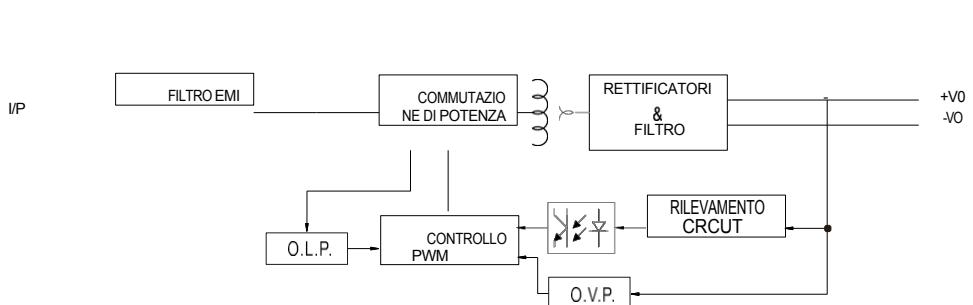
MODEL	DDR-15L-3.3	DDR-15L-5	DDR-15L-12	DDR-15L-15	DDR-15L-24
OUTPUT	DC VOLTAGE	3.3V			
	RATED CURRENT	4.5A	3A	1.25A	1A
	CURRENT RANGE	0 ~ 4.5A			
	RATED POWER	15W	15W	15W	15W
	RIPLLE & NOISE (max.) Note.2	50mVp-p			
	VOLTAGE ADJ. RANGE	3.0 ~ 3.6V	4.5 ~ 5.5V	9 ~ 13.2V	13.5 ~ 16.5V
	VOLTAGE TOLERANCE Note.3	±2.0%			±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.5%			±0.5%
	SETUP, RISE TIME	120ms, 85ms at full load			
INPUT		L-type: 16ms@48Vdc input			
	EXTERNAL CAPACITANCE LOAD (Max.)	3300 μF	3300 μF	1200 μF	1200 μF
	Note.4	18 ~ 75Vdc			
PROTECTION	EFFICIENCY (Typ.)	84%	85%	86%	86%
		0.4A/48Vdc			
	INRUSH CURRENT (Typ.)	15A/48Vdc			
ENVIRONMENT	OVERLOAD	110 ~ 150% rated output power			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVERVOLTAGE	3.84-7V	5.75 ~ 7V	13.8 ~ 16.2V	17.25 ~ 20.25V
		Protection type : Shut down o/p voltage, re-power on to recover			28.8 ~ 32.4V
SAFETY & EMC (Note 5)	REVERSE POLARITY	By internal MOSFET, no damage, recovers automatically after fault condition removed			
	UNDER VOLTAGE LOCKOUT	Power ON ≥ 18V, OFF ≤ 17V			
	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			
OTHERS	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), 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°C / 70% RH			
	EMC EMISSION	Parameter	Standard	Test Level/Note	
NOTE	Conducted	EN55032		Class B	
	Radiated	EN55032		Class B	
	Voltage Flicker	EN61000-3-3		----	
	EMC IMMUNITY	EN55024, EN61000-6-2(EN50082-2)			
	Parameter	Standard	Test Level / Note		
	ESD	EN61000-4-2	Level 3, 8KV air ; Level 3, 6KV contact; criteria A		
	Radiated	EN61000-4-3	Level 3, 10V/m ; criteria A		
	EFT/Burst	EN61000-4-4	Level 3, 2KV ; criteria A		
	Surge	EN61000-4-5	Level 3, 1KV/Line-Line ; criteria A		
	Conducted	EN61000-4-6	Level 3, 10V ; criteria A		
	Magnetic Field	EN61000-4-8	Level 4, 30A/m ; criteria A		
DIMENSION	MTBF	907K hrs min.	MIL-HDBK-217F (25°C)		
	DIMENSION				
	PACKING	68g; 160pcs/12Kg/1.19CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 48VDC input, 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 0.1 μf & 47 μf 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).				



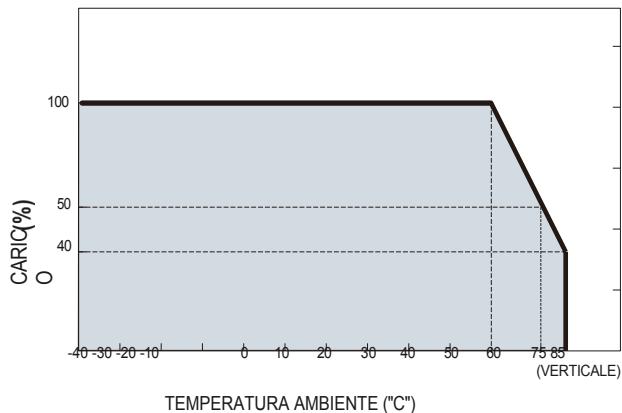
Convertitore C.C./C.C. da 15W per guida DIN

DDR-1 serie

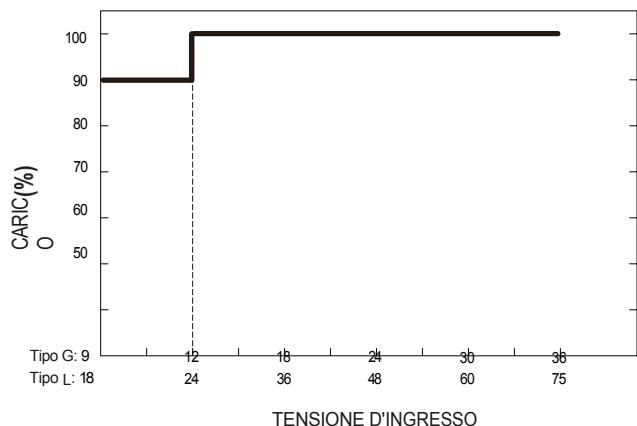
Schema a blocchi B



B Curva di declassamento

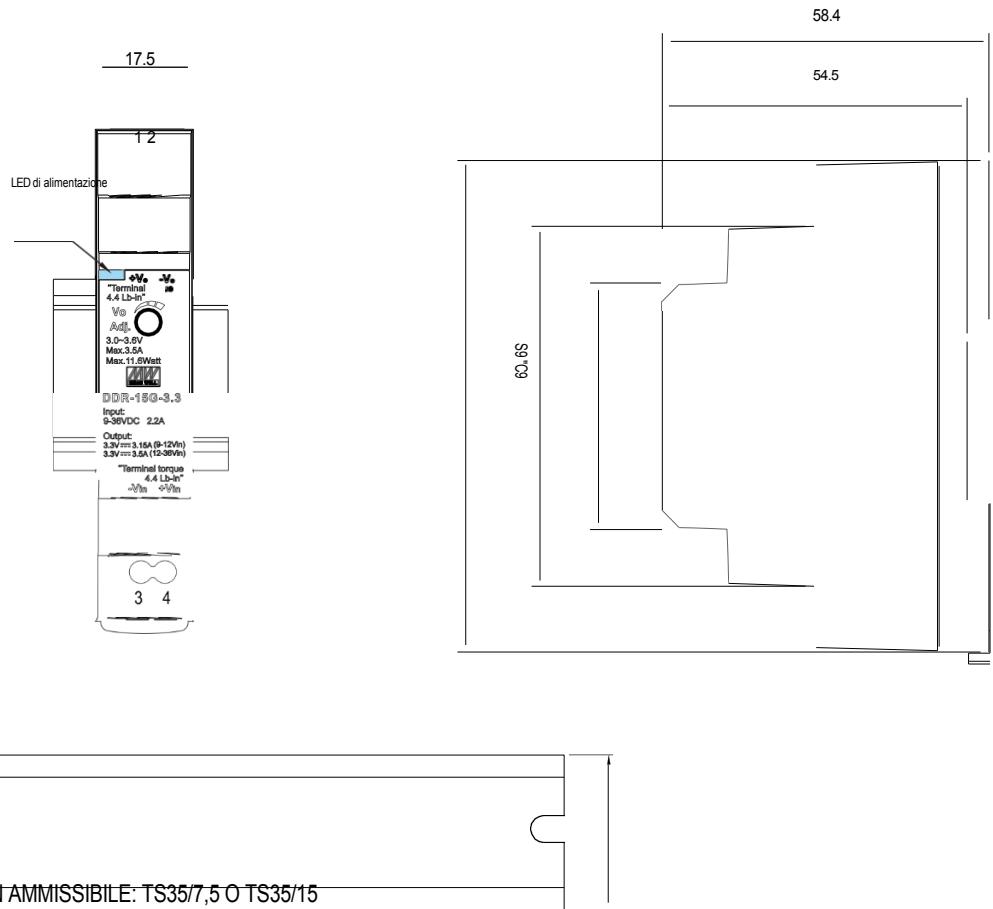


B Declassamento dell'uscita VS tensione d'ingresso



B Specifiche meccaniche

(Unità: mm, tolleranza + 0,5 mm)



Assegnazione dei pin dei morsetti

Numero di pin	Assegnazione
1	Uscita CC *Vo
2	Uscita CC -Vo
3	Ingresso DC -Vin
4	Ingresso DC +Vin

B Manuale di installazione

Fare riferimento a: <http://www.meanwell.com/manual.html>

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