



Convertitore CC-CC da 60W per guida DIN

DDR-60 serie



Caratteristica M

- Larghezza di soli 52,5 mm (3SU)
- Campo di ingresso ultra ampio 4:1
- Temperatura di lavoro ampia -40 +85 °C
- Nessun carico minimo richiesto
- Uscita DC regolabile (T 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



M Applicazioni

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

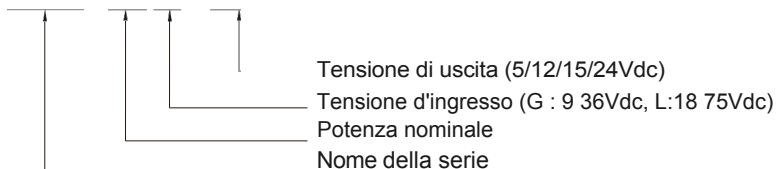
Descrizione del prodotto

La serie DDR-60 è un convertitore CC-CC da 60W su guida DIN con caratteristiche principali quali la facilità di installazione su guida DIN, la larghezza ultra sottile (52,5 mm), la tensione di ingresso ultra ampia 4:1, la temperatura di funzionamento ampia da -40 a +85 °C, l'isolamento I/O a 4KVdc, la tensione di uscita regolabile (+ 1 0%) e le funzioni di protezione complete...ecc.

Questa serie dispone di due opzioni di ingresso: 9 36V /18 75V e diverse opzioni di uscita: 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.

Modello Codifica DDR -

60 G - 24





60W DIN Rail Type DC-DC Converter

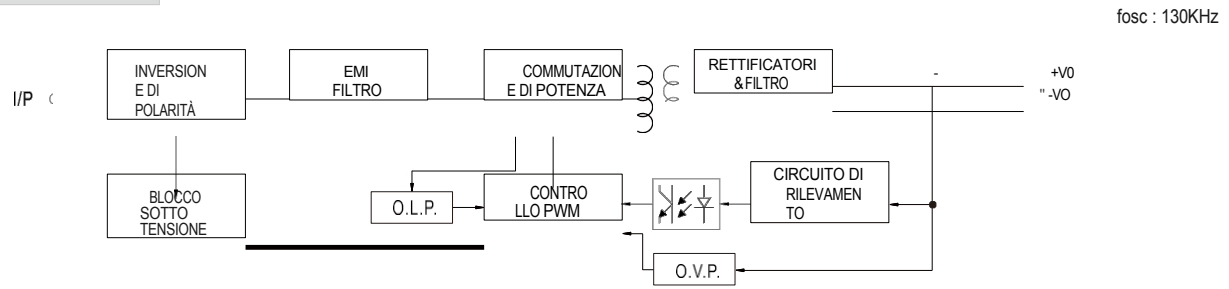
DDR-60 series

SPECIFICATION

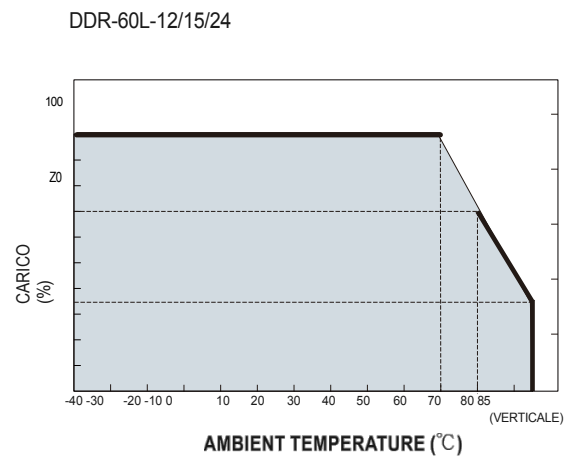
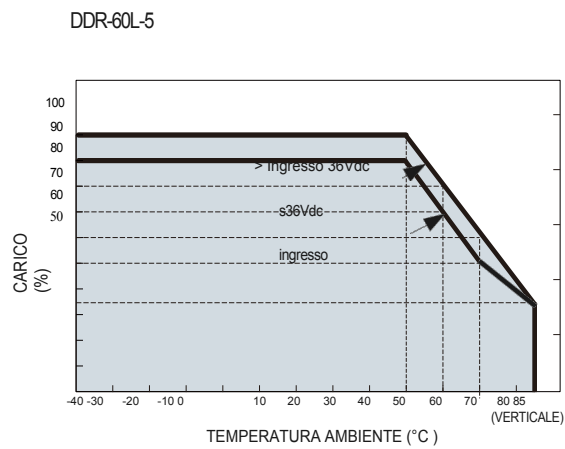
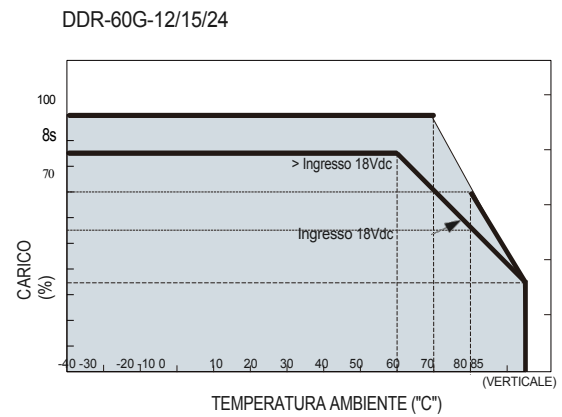
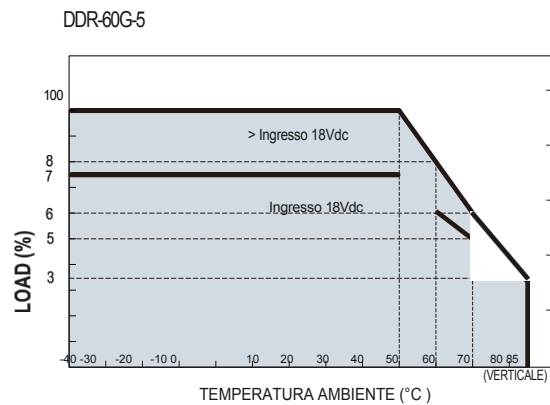
MODEL		DDR-60G-5	DDR-60G-12	DDR-60G-15	DDR-60G-24	DDR-60L-5	DDR-60L-12	DDR-60L-15	DDR-60L-24	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	5V	12V	15V	24V	
	RATED CURRENT	10.8A	5A	4A	2.5A	12A	5A	4A	2.5A	
	CURRENT RANGE	0 ~ 10.8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 12A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	
	RATED POWER	54W	60W	60W	60W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	60mVp-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 <small>Note.3</small>	±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					L-type: 10ms@48Vdc input			
		G-type: 5ms@24Vdc input								
	EXTERNAL CAPACITANCE LOAD (Max.)	6800 μ F	4700 μ F	3300 μ F	2200 μ F	6800 μ F	4700 μ F	3300 μ F	2200 μ F	
INPUT	VOLTAGE RANGE <small>Note.4</small>	9 ~ 36Vdc				18 ~ 75Vdc				
	EFFICIENCY (Typ.)	87.5%	91%	91%	91%	87.5%	91%	92%	92%	
		3A/24Vdc				1.5A/48Vdc				
	INRUSH CURRENT (Typ.)	20A/24Vdc				20A/48Vdc				
PROTECTION	OVERLOAD	105 ~ 135% 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°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	\pm 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 & EMC (Note 5)	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			
		Conducted			EN55032		Class A			
		Radiated			EN55032		Class A for 1m I/O cable , Class B for 30cm I/O cable			
		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			
OTHERS		MTBF	61K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION									
	PACKING	216g; 60pcs/14Kg/0.97CUFT								
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 0.1 μ f & 47 μ f 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)								



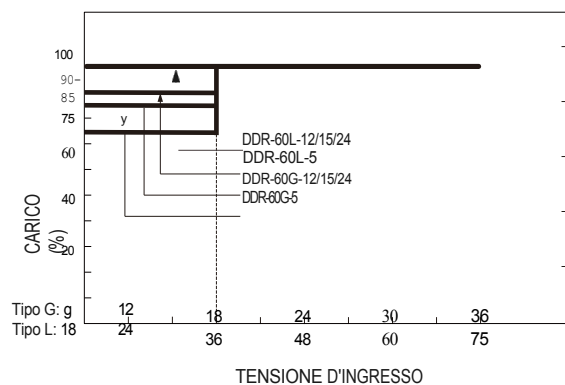
Schema a blocchi B



Curva di declassamento B

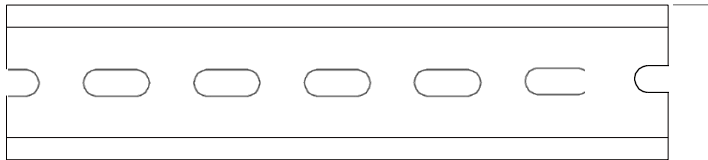
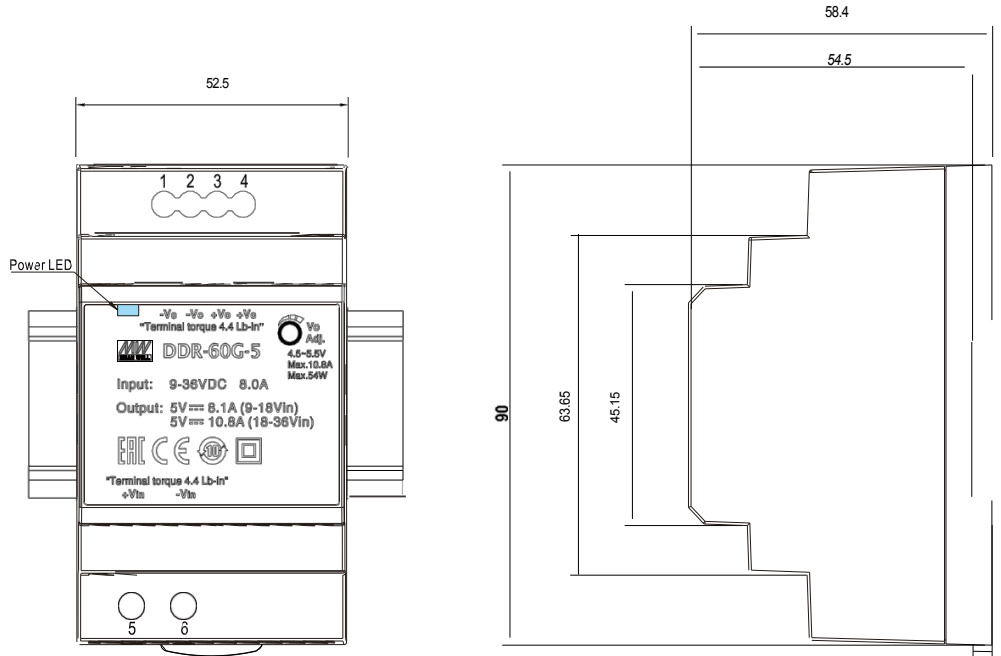


B Derating di uscita VS tensione di ingresso





B Specifiche meccaniche



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

N. pin	Assegnazione
1,2	Uscita CC -Vo
3,4	Uscita CC +Vo
5	Ingresso DC +Vin
6	Ingresso DC -Vin

B Manuale di installazione

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

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