



Características M

- Anchura de sólo 52,5 mm
- (3SU) Rango de entrada ultraamplio 4:1
- Amplia temperatura de trabajo -40 +85 °C
- No requiere carga mínima
- Salida DC ajustable (T 10%)
- Refrigeración por convección de aire libre
- Puede instalarse en carril DIN TS-35/7,5 ó 15
- Protecciones: Cortocircuito / Sobrecarga / Sobretensión / Polaridad inversa de entrada / Protección contra subtensión de entrada Aislamiento de E/S 4KVdc (aislamiento reforzado)
- 3 años de garantía

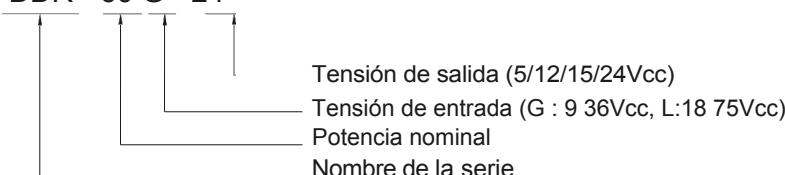
Descripción

La serie DDR-60 es un convertidor CC-CC de 60W de tipo carril DIN con características principales como fácil instalación en carril DIN, anchura ultra delgada (52,5mm), voltaje de entrada ultra amplio 4:1, temperatura de funcionamiento amplia -40-+85°C, aislamiento de E/S 4KVdc, voltaje de salida ajustable (+ 1 0%) y funciones de protección completas...etc.

Esta serie tiene dos opciones de entrada: 9 - 36V /18 - 75V y varias opciones de salida: 5V / 12V / 15V / 24V y se puede utilizar para control industrial, control de seguridad, sistema de comunicación y otros campos. Las aplicaciones adecuadas son regulador DC buck/boost, aumento del nivel de aislamiento del sistema y compensación de caída de tensión a lo largo del cable...etc.

Modelo Codificación

DDR - 60 G - 24



M Aplicaciones

- Sistema de control industrial
- Equipos de fabricación de semiconductores Automatización de fábricas
- Red inalámbrica electromecánica
- Sistema de telecomunicaciones o datacom



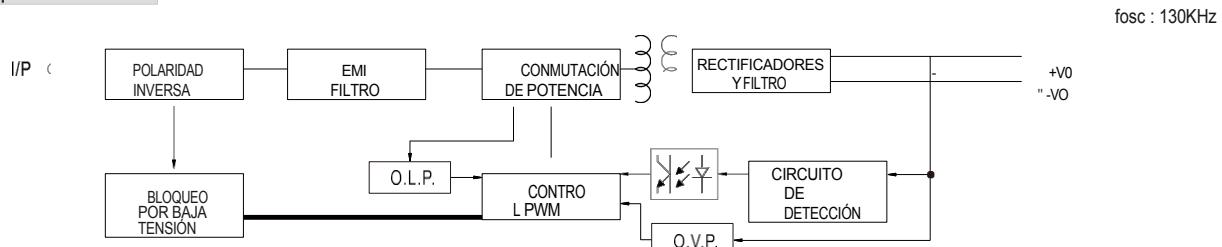
60W DIN Rail Type DC-DC Converter

DDR-60 series

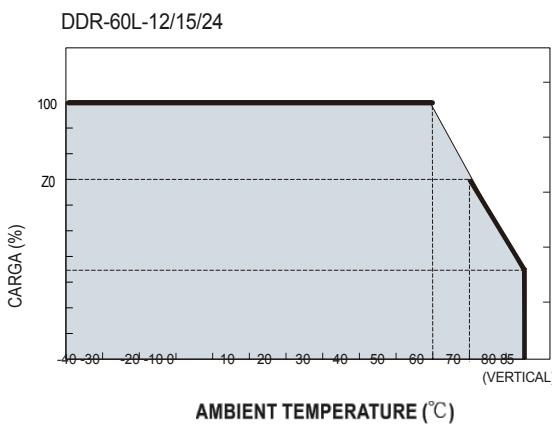
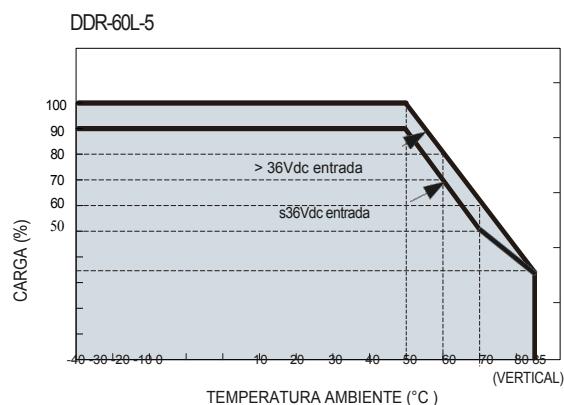
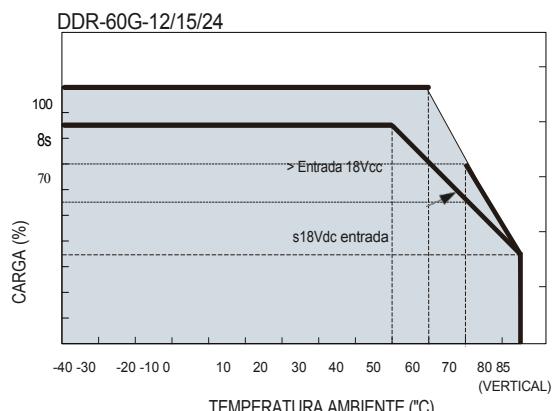
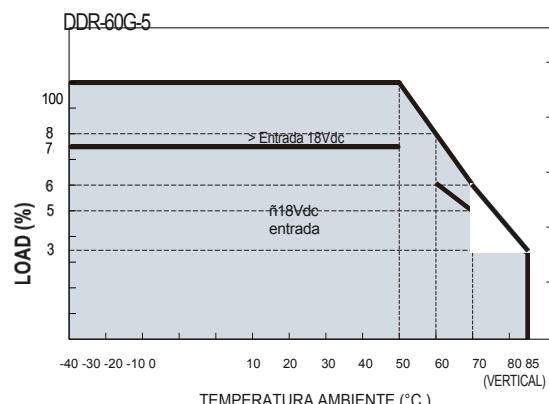
SPECIFICATION

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.) Note.2	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 Note.3	±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				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 Note.4	9 ~ 36Vdc				18 ~ 75Vdc												
	EFFICIENCY (Typ.)	87.5%	91%	91%	91%	87.5%	91%	92%	92%									
	INRUSH CURRENT (Typ.)	3A/24Vdc				1.5A/48Vdc												
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed																
	OVERVOLTAGE	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									
	REVERSE POLARITY	Protection type : Shut down o/p voltage, re-power on to recover																
	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	$\pm 0.03\%/\text{°C}$ (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	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													
	EMC IMMUNITY	Voltage Flicker	EN61000-3-3		----													
		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		EN61000-4-8		Level 4, 30A/m ; criteria A												
	MTBF	61K hrs min. MIL-HDBK-217F (25°C)																
	DIMENSION																	
NOTE	PACKING	216g; 60pcs/14Kg/0.97CUFT																
	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)																	

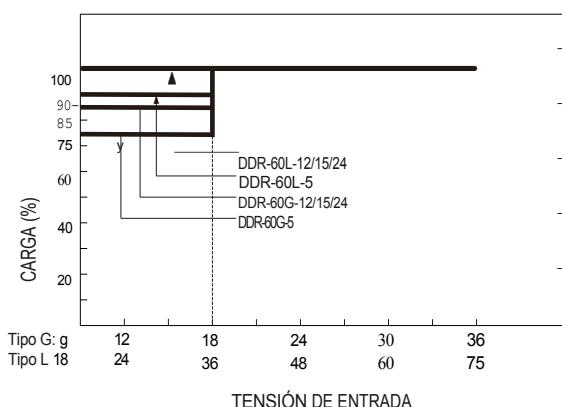
Diagrama de bloques B



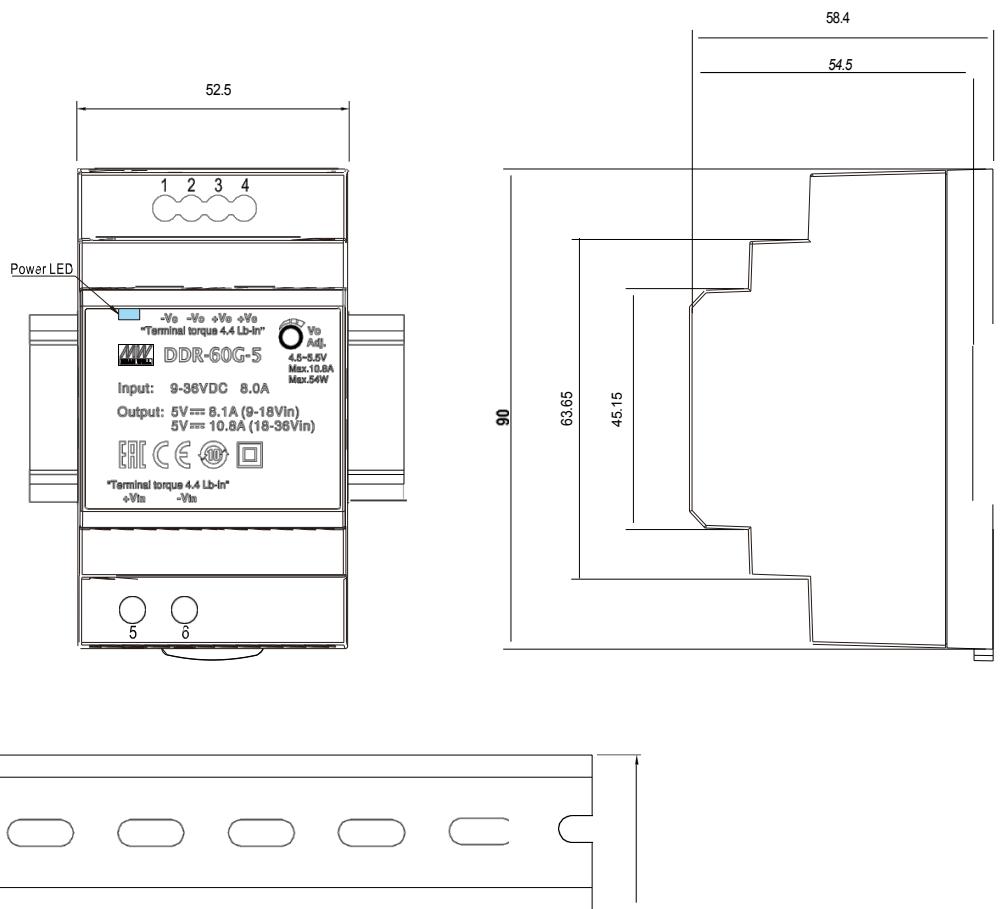
B Curva de reducción



B Derrameo de salida VS tensión de entrada



B Especificaciones mecánicas



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

PinNo.	Asignación
1,2	Salida DC -Vo
3,4	Salida CC +Vo
5	Entrada CC +Vin
6	Entrada CC -Vin

B Manual de instalación

Consulte : <http://www.meanwell.com/manual.html>

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