





### M Merkmal

Breite nur 52,5 mm (3SU) 4:1 ultraweiter Eingangsbereich -40 +85 "C breite Arbeitstemperatur Keine Mindestlast erforderlich DC-Ausgang einstellbar (T 10%) Kühlung durch freie Luftkonvektion

 Kann auf DIN-Schiene TS-35/7,5 oder 15 montiert werden Schutzfunktionen: Kurzschluss / Überlast / Überspannung / Eingang Verpolung / Eingangsunterspannungsschutz 4KVdc

E/A-Isolierung (verstärkte Isolierung)

- 3 Jahre Garantie











## M Anwendungen

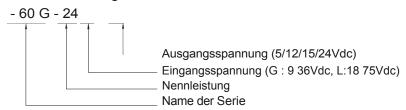
Industrielles Steuerungssystem
Halbleiterfertigungsanlagen
Fabrikautomation
Elektromechanisches
Drahtlosnetzwerk
Telekommunikations- oder
Datenkommunikationssystem

## Beschreibung

Die Serie DDR-60 ist ein 60-W-DC-Gleichstromwandler für die DIN-Schiene mit folgenden Hauptmerkmalen: einfache Installation auf der DIN-Schiene, ultraschmale Breite (52,5 mm), ultrabreite Eingangsspannung von 4:1, Betriebstemperatur von -40 bis +85 °C, E/A-Isolierung von 4 kVdc, einstellbare Ausgangsspannung (+ 1,0 %) und vollständige Schutzfunktionen... usw.

Diese Serie hat zwei Eingangsoptionen: 9 36V / 18 75V und verschiedene Ausgangsoptionen: 5V / 12V / 15V / 24V und kann für industrielle Steuerung, Sicherheitskontrolle, Kommunikationssysteme und andere Bereiche verwendet werden. Geeignete Anwendungen sind DC-Abwärts-/Aufwärtsregler, die Erhöhung des Isolationsniveaus des Systems und die Kompensation des Spannungsabfalls entlang des Kabels...usw.

## Modell Kodierung DDR

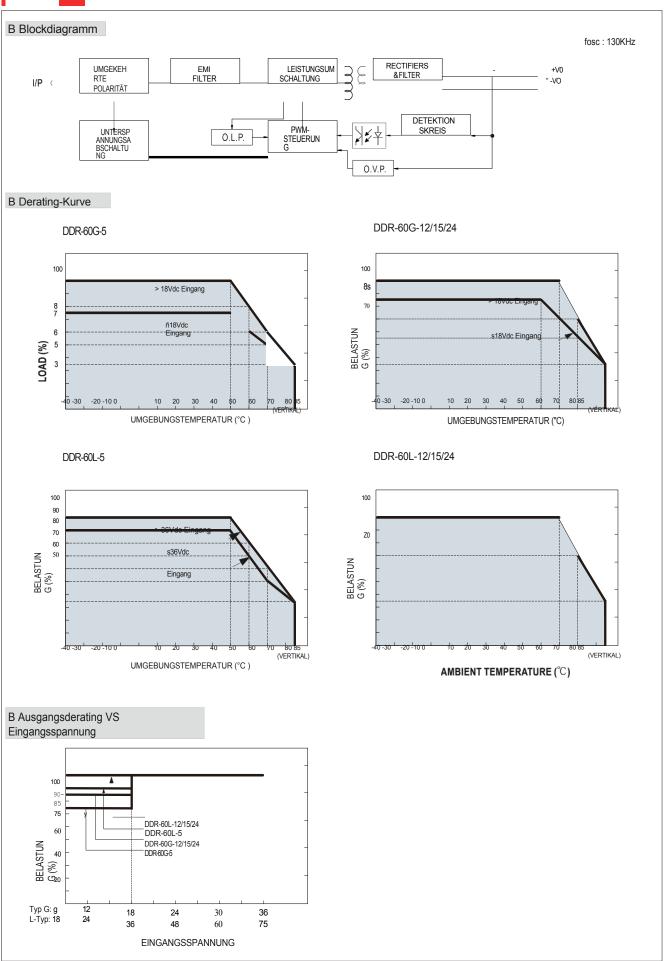




# **SPECIFICATION**

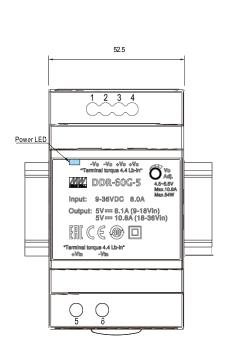
IT GE (max.) Note.2 RANGE RANCE Note.3 ON TION ME ACITANCE SE Note.4 p.) NT (Typ.)	4.5~5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9~36Vdc 87.5% 3A/24Vdc 20A/24Vdc	24Vdc input 4700 μF 91%	15V 4A 0~4A 60W 13.5~16.5V ±0.5% ±0.5% 3300 µF	24V 2.5A 0~2.5A 60W 21.6~28V ±0.5% ±0.5% 2200 µF	5V 12A 0~12A 60W 60mVp-p 4.5~5.5V ±2.0% ±0.5% ±1.5%  L-type: 10ms@ 6800 µF 18~75Vdc	12V 5A 0~5A 60W 75mVp-p 9~13.2V ±2.0% ±0.5% ±0.5% 248Vdc input 4700 µF	15V 4A 0 ~ 4A 60W 75mVp-p 13.5 ~ 16.5V ±2.0% ±0.5% ±0.5%	24V 2.5A 0~2.5A 60W 100mVp-p 21 6~28V ±2.0% ±0.5% 2200 µF
GE  (max.) Note.:  RANGE RANCE Note.3  ON  FION  ME  ACITANCE  BE  Note.4  p.)	0 ~ 10.8A 54W 2 60mVp-p 4.5 ~ 5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 μF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% r. Protection typ	0 ~ 5A 60W 9 ~ 13.2V ±0.5% ±0.5% at full load 24Vdc input 4700 µF	0~4A 60W 13.5~16.5V ±0.5% ±0.5%	0~2.5A 60W 21.6~28V ±0.5% ±0.5%	0~12A 60W 60mVp-p 4.5~5.5V ±2.0% ±0.5% ±1.5% L-type: 10ms@ 6800 μF 18~75Vdc	0~5A 60W 75mVp-p 9~13.2V ±2.0% ±0.5% ±0.5%	0~4A 60W 75mVp-p 13.5~16.5V ±2.0% ±0.5% ±0.5%	0~2.5A 60W 100mVp-p 21 6~28V ±2.0% ±0.5%
E (max.) Note.: RANGE RANCE Note.3 ON FION ME  ACITANCE BE Note.4 p.)	54W 2 60mVp-p 4.5 ~ 5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% rs Protection typ	60W   9 ~ 13.2V   ±0.5%   ±0.5%   at full load   24Vdc input   4700 μF   91%	13.5 ~ 16.5V   ±0.5%   ±0.5%   3300 µF	21.6 ~ 28V ±0.5% ±0.5% 2200 µF	60W 60mVp-p 4.5~5.5V ±2.0% ±0.5% ±1.5%  L-type: 10ms@ 6800 \(\mu\)F 18~75Vdc	60W 75mVp-p 9 ~ 13.2V ±2.0% ±0.5% ±0.5%	60W 75mVp-p 13.5 ~ 16.5V ±2.0% ±0.5% ±0.5%	0~2.5A 60W 100mVp-p 21 6~28V ±2.0% ±0.5%
RANGE RANCE Note.3 ON TION ME ACITANCE SE Note.4 p.)	2 60mVp-p 4.5 ~ 5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% rs Protection typ	9~13.2V ±0.5% ±0.5% at full load 24Vdc input 4700 µF	13.5 ~ 16.5V ±0.5% ±0.5% 3300 µF	21.6 ~ 28V ±0.5% ±0.5% 2200 µF	60mVp-p 4.5~5.5V ±2.0% ±0.5% ±1.5%  L-type: 10ms@ 6800 \( \mu \)F 18~75Vdc	75mVp-p 9 ~ 13.2V ±2.0% ±0.5% ±0.5%	75mVp-p 13.5 ~ 16.5V ±2.0% ±0.5% ±0.5%	60W 100mVp-p 21 <sub>6</sub> ~28V ±2.0% ±0.5% ±0.5%
RANGE RANCE Note.3 ON TION ME ACITANCE SE Note.4 p.)	4.5~5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9~36Vdc 87.5% 3A/24Vdc 20A/24Vdc 105~135% rs	±0.5% ±0.5% at fu load 24Vdc input 4700 μF	13.5 ~ 16.5V ±0.5% ±0.5% 3300 µF	±0.5% ±0.5%	4.5~5.5V ±2.0% ±0.5% ±1.5% L-type: 10ms@ 6800 μF 18~75Vdc	9 ~ 13.2V ±2.0% ±0.5% ±0.5%	13.5 ~ 16.5V ±2.0% ±0.5% ±0.5%	216~28V ±2.0% ±0.5% ±0.5%
RANGE RANCE Note.3 ON TION ME ACITANCE SE Note.4 p.)	4.5~5.5V ±2.0% ±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9~36Vdc 87.5% 3A/24Vdc 20A/24Vdc 105~135% rs	±0.5% ±0.5% at fu load 24Vdc input 4700 μF	±0.5% ±0.5%	±0.5% ±0.5%	±2.0% ±0.5% ±1.5% L-type: 10ms@ 6800 μF 18~75Vdc	$\pm 2.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ $248$ Vdc input	±2.0% ±0.5% ±0.5%	216~28V ±2.0% ±0.5% ±0.5%
RANCE Note.3 ON TION ME ACITANCE GE Note.4 p.) NT (Typ.)	±0.5% ±1.5% 120ms, 85ms a G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% rs Protection typ	±0.5% ±0.5% at fu load 24Vdc input 4700 μF	±0.5% ±0.5%	±0.5% ±0.5%	±0.5% ±1.5% L-type: 10ms@ 6800 µF 18~75Vdc	±0.5% ±0.5%	±0.5% ±0.5%	±2.0% ±0.5% ±0.5%
ACITANCE SE Note.4 p.) NT (Typ.)	±1.5%  120ms, 85ms a G-type: 5ms@ 6800 µF  9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% rs	±0.5%  at ful load 24Vdc input 4700 µF	±0.5% 3300 μF	±0.5%	±1.5%  L-type: 10ms@ 6800 µF 18 ~ 75Vdc	±0.5%	±0.5%	±0.5% ±0.5%
ME ACITANCE GE Note.4 p.) NT (Typ.)	120ms, 85ms a G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% rs	at ful load 24Vdc input 4700 µF	3300 <b>µ</b> F	2200 µF	±1.5%  L-type: 10ms@ 6800 µF 18 ~ 75Vdc	)48Vdc input		
ACITANCE  BE Note.4  p.)  NT (Typ.)	G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A/24Vdc 20A/24Vdc 105 ~ 135% r. Protection typ	24Vdc input 4700 μF 91%	1 -		6800 μF 18 ~ 75Vdc	1	3300 µF	2200 µF
ACITANCE  BE Note.4  p.)  NT (Typ.)	G-type: 5ms@ 6800 µF 9 ~ 36Vdc 87.5% 3A /24Vdc 20A /24Vdc 105 ~ 135% r. Protection typ	24Vdc input 4700 μF 91%	1 -		6800 μF 18 ~ 75Vdc	1	3300 µF	2200 <b>µ</b> F
DE Note.4 p.) NT (Typ.)	6800 µF  9 ~ 36Vdc  87.5%  3A /24Vdc  20A /24Vdc  105 ~ 135% r.  Protection typ	4700 µF	1 -		6800 μF 18 ~ 75Vdc	1	3300 µF	2200 <b>µ</b> F
p.) NT (Typ.)	87.5% 3A/24Vdc 20A/24Vdc 105 ~ 135% rs		91%	91%		•		
NT (Typ.)	3A/24Vdc 20A/24Vdc 105 ~ 135% rs Protection typ		91%	91%	07.50/			
NT (Typ.)	20A /24Vdc 105 ~ 135% rs Protection typ	ated output nowe	1		87.5%	91%	92%	92%
	105 ~ 135% rs	ated output nowe		•	1.5A/48Vdc	·	'	
	Protection typ	ated output nowe	20A/24Vdc 20A/48Vdc					
	Protection typ	105 ~ 135% rated output power						
				vers automaticall	v after fault cond	ition is removed		
		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
RITY	Protection tvp	1	p voltage, re-pow		•	1.0.0 .0.2	201201	20.0 011
	By internal MOSFET, no damage, recovers automatically after fault condition removed							
UNDER VOLTAGE LOCKOUT	24Vin (G-type):Power ON≥9V , OFF≤8.5V							
	48Vin (L-type):Power ON≥18V, OFF≤17V							
Ρ.		Refer to "Deratin						
IDITY	5 ~ 95% RH non-condensing							
P., HUMIDITY	-40 ~ +85°C, 5 ~ 95% RH non-condensing							
•	$\pm 0.03\%$ °C (0 ~60°C)  Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
							-6	
LTITUDE	2000 meters							
	IEC 62368-1	(LVD), AS/NZS 62	2368.1 approved;	Design refer to	UL508			
LTAGE	I/P-O/P:4KVdc							
ISTANCE	I/P-O/P>100M Ohms / 500Vdc / 25°C / 70% RH							
SAFETY & EMC EMISSION  EMC (Note 5)  EMC IMMUNITY	Parameter		Sta	andard	Te	st Level/ Note		
	Conducted		EN	55032	Cla	ass A		
	Radiated	Radiated EN55032		55032	Class A for 1m I/O cable, Class B for 30cm I/O c		r 30cm I/O cab	
	Voltage Flicke	er	EN	61000-3-3				
	_		0082-2)		<u>'</u>			
			tandard		est Level / Note			
	ESD	ESD EN61000-4-2		Le	Level 3, 8KV air ; Level 3, 6KV contact; criteria A			
	Radiated		EN	ENG1000 4 2				
	EFT / Burst		EN	61000-4-4				
	Surge	FN61000 4 5		61000-4-5				
	ENG		61000-4-6	I o				
		ld	EN	61000-4-8				
		MIL LIDDIC O	17F (0F°C)			VOI 4, OO/ WIII , OII	toriu / t	
	61 <sub>1K</sub> hrs min.	WIII -HIJBK-/	1/F (Z5 C)					
	61 <sub>1K</sub> hrs min.	MIL-HDBK-2	17F (25 C)					
A D O S		Component:1   ALTITUDE   2000 meters     DARDS   IEC 62368-1 (   OLTAGE   I/P-O/P:4KVd     SISTANCE   I/P-O/P>100N     Parameter     Conducted     Radiated     Voltage Flicke     EN55024	Component:10 ~ 500Hz, 2G 10   ALTITUDE   2000 meters     DARDS   IEC 62368-1 (LVD), AS/NZS 63   OLTAGE   I/P-O/P:4KVdc     I/P-O/P:4KVdc     Parameter   Conducted     Radiated     Voltage Flicker     EN55024 , EN61000-6-2(EN50)     Parameter     ESD     Radiated     Y   EFT / Burst     Surge	Component:10 ~ 500Hz, 2G 10min./1cycle, 60r	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Moural ALTITUDE   2000 meters	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance   ALTITUDE   2000 meters	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2   ALTITUDE   2000 meters

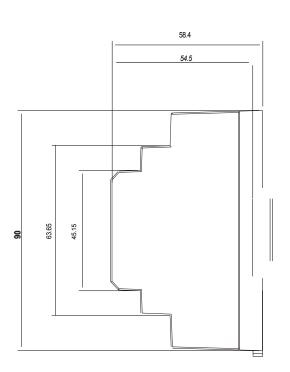






# B Mechanische Spezifikation





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

PinNo.	Zuweisung
1,2	DC-Ausgang -Vo
3,4	DC-Ausgang +Vo
5	DC-Eingang +Vin
6	DC-Eingang -Vin

# B Installationshandbuch

Siehe: http://www.meanwell.com/manual.html

Dieses Dokument wurde automatisch óbersetzt. Die ábersetzung kann Fehler oder Ungenauigkeiten enthalten.

Im Zweifelsfall beziehen Sie sich bitte auf die Originalversion oder kontaktieren Sie uns.