



M-Merkmal

- Breite nur 17,5 mm (1SU) 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 installiert werden
- Schutzfunktionen: Kurzschluss / Überlast / Überspannung /
 - Eingangsverpolung /
 - Eingangsunterspannungsschutz 4KVdc
- E/A-Isolierung (verstärkte Isolierung)
- 3 Jahre Garantie

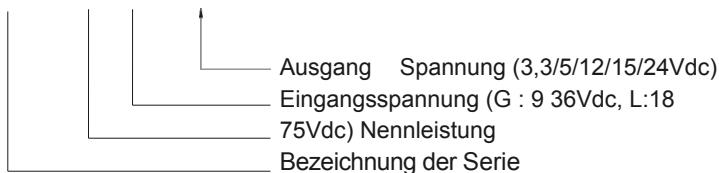
Beschreibung

Die Serie DDR-15 ist ein 15-W-DC-DC-Wandler für die DIN-Schiene mit den Hauptmerkmalen: einfache Installation auf der DIN-Schiene, ultraschmale Breite (17,5 mm), 4:1-Eingangsspannung, Betriebstemperatur von -40 bis +85 °C, 4KVdc-Isolierung, einstellbare Ausgangsspannung (+10 %) und vollständige Schutzfunktionen usw.

Diese Serie hat zwei Eingangsoptionen: 9-36V / 18-75V und verschiedene Ausgangsoptionen: 3,3V / 5V / 12V / 15V / 24V und kann für industrielle Steuerung, Sicherheitskontrolle, Kommunikationssysteme und andere Bereiche verwendet werden. Geeignete Anwendungen sind DC-Abwärts-/Aufwärtsregler, Erhöhung der Systemisolierung und Spannungsabfallkompensation entlang des Kabels...usw.

Modell Kodierung

DDR - 15 G - 24



M Anwendungen

- Industrielles Steuerungssystem
- Halbleiterfertigungsanlagen Fabrikautomation
- Elektromechanik Drahtloses
- Netzwerk
- Telekommunikations- oder Datenübertragungssystem



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	1.25A	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									
	RIPPLE & 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.)	15A / 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	By internal MOSFET, no damage, recovers automatically after fault condition removed												
	UNDER VOLTAGE LOCKOUT	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).													



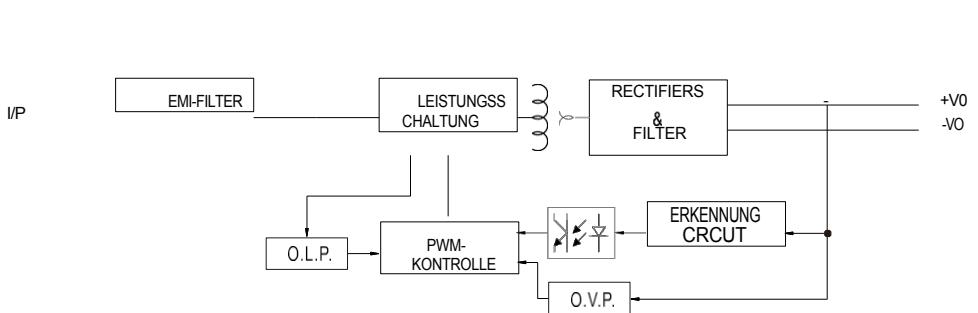
15W DIN Rail Type DC-DC Converter

DDR-15 series

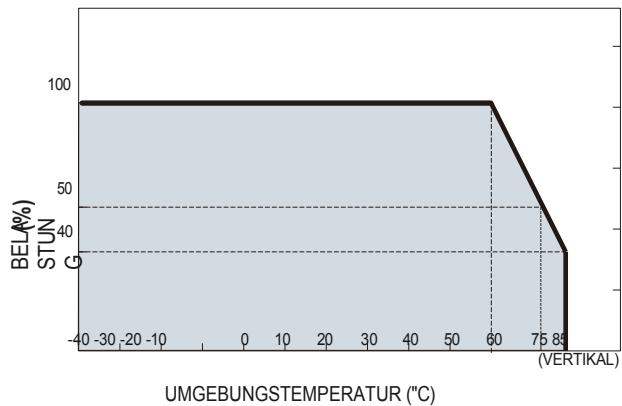
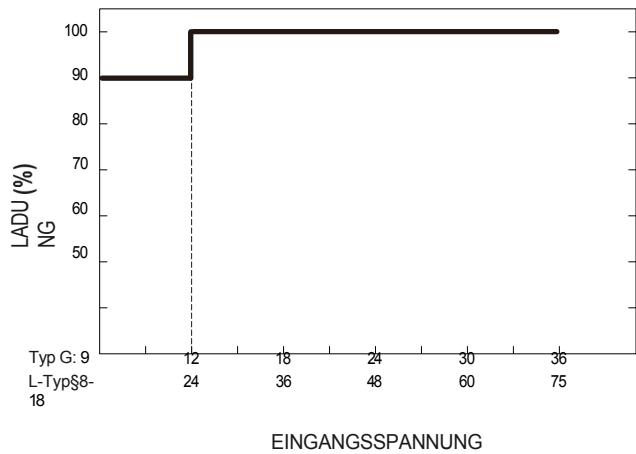
SPECIFICATION

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	EXTERNAL CAPACITANCE LOAD (Max.)	3300 μF	3300 μF	1200 μF	1200 μF
	Note.4	18 ~ 75Vdc			
	EFFICIENCY (Typ.)	84%	85%	86%	86%
		0.4A/48Vdc			
PROTECTION	INRUSH CURRENT (Typ.)	15A/48Vdc			
	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
ENVIRONMENT					28.8 ~ 32.4V
	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			
SAFETY & EMC (Note 5)	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			
	OPERATING ALTITUDE	2000 meters			
	SAFETY STANDARDS	IEC 62368-1 (LVD), AS/NZS 62368.1 approved; Design refer to UL508			
OTHERS	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	
		Magnetic Field	EN61000-4-8	Level 4, 30A/m ; criteria A	
NOTE	MTBF	907K hrs min.	MIL-HDBK-217F (25°C)		
	DIMENSION				
	PACKING	68g; 160pcs/12Kg/1.19CUFT			
	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).				

B Blockdiagramm

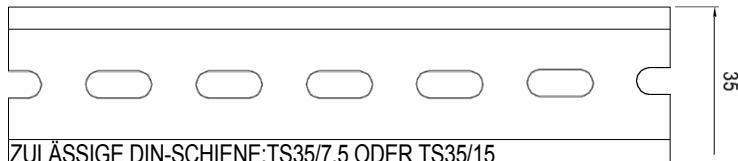
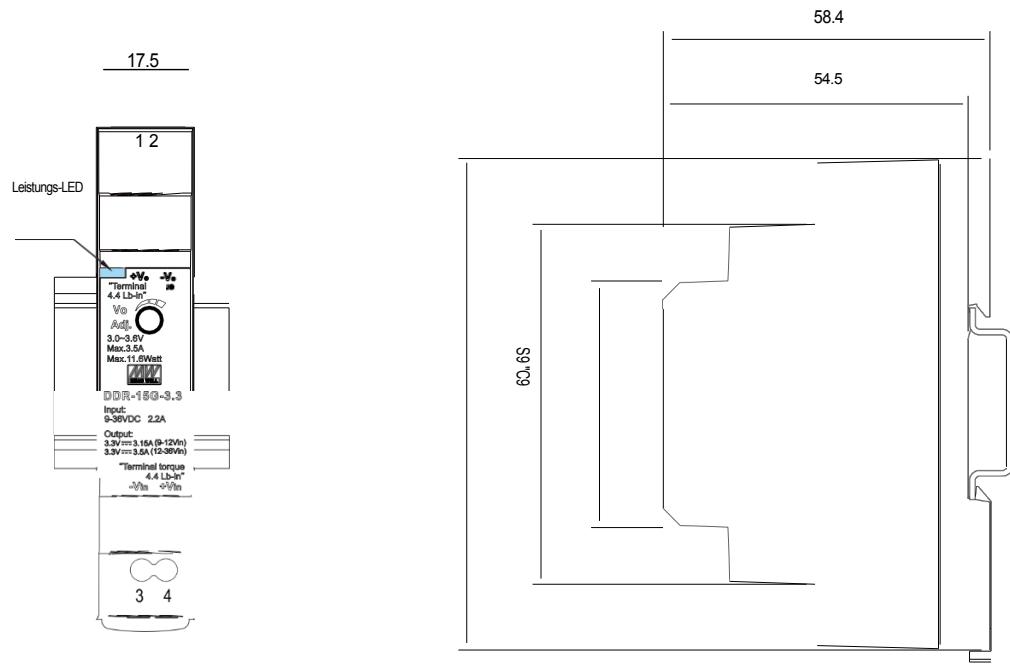


B Derating-Kurve

B Ausgangsderating VS
Eingangsspannung

B Mechanische Spezifikation

(Einheit: mm , Toleranz+ 0,5mm)



ZULÄSSIGE DIN-SCHIENE: TS35/7.5 ODER TS35/15

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