### DC/DC-Converter Module 40W

## **Double Output MDCDS 15.1,2/24**

Vin = 18-36 Vdc



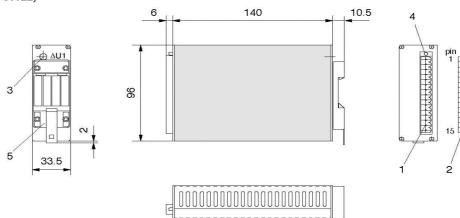
### **Ordering Information**

Туре	Output ( ) Power Boost	Input Voltage	Housing Dimensions see drawing	Article No. *
MDCDS 15.1,2/24	O1 = 15V ; 2.5A O2 = 15V ; 1.25A	24 Vdc	140x33.5x96mm	251-601-00

<sup>\*</sup> Housing inside chromate, outside green lacquer

#### **Dimensions** in mm without accessories

1 = connector
2 = female connector with screw terminal strip (accessory)
3 = potentiometer
4 = LED, green
5 = mounting device (according to EN 50022)



#### **Terminal Strip**

Free pins may not be connected external!

	Pin
+ Output 1	1
+ Sense Lead 1	2
- Output 1	3
- Sense Lead 1	4
+ Output 2	9
- Output 2	10
I/O External ON/OFF	12
- Input	13
+ Input	14
Earth PE	15

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#### **Technical Data**

Guaranteed values after a warm-up period of approx. 15 min. at nominal load, measured at the unit's output.

Output		01		02		
Output Voltage	[Vdc]	15		15		
Adjustment Range (+)	[V]	1		fixed		
Output Current						
up to Tamb=50°C cont. current (max. 40V	,	2.5		1.25		
up to Tamb=70°C cont. current (max. 30V	V) [A]	2.2		1.1		
Current Limiting	[A]	3		2		
Characteristic Curve		approx. V-I		fold ba	·	
Type of Regulation		primary switched		linearly	regulated	
Efficiency	[%]	≥ 75				
Voltage Deviation for						
Load Change 0 100% (static)	[mV]	≤ 10	(20)*	≤ 20	(40)*	
Mains Voltage Change Vin min-Vin max	[mV]	≤ 10	(20)*	≤ 20	(40)*	
Operating Frequency Ripple (70kHz)	[mVpp]	≤ 10	(20)*	≤ 20	(40)*	
Superimposed Switching Spikes	[mVpp]	≤ 80	(150)*	≤ 80	(150)*	
Dynamic Voltage Deviation for			4		45.5.50	
Δlo = 65100% Inom	[mV]	≤ 200	(300)*	≤ 100	(200)*	
Regulation Time for	f1	< 000		- 150		
Δlo = 65100% Inom	[µs]	≤ 300		≤ 150		
Starting Delay	[ms]	≤ 100				
Overvoltage Protection Output	пл	47				
Factory Setting (tol. +0.5V) Residual Voltage after Tripping	[V] [V]	17 0		-		
Sense Lead Operation for O1		max. 0.2	25			
(load line compensation)	[V]		per load line			
Overload Protection		continuous short-circuit-proof				
		200				
	[ppm/K]					
Input Voltage Nominal	[Vdc]	24	E00/	10.00		
Operating Range	[Vdc]	-25%/+	50%	18-36		
in the Event of Mains Failure with series-connected decoupling diode						
	tBuff [ms]	≥ 15				
Max. Input Current (nominal range)	[A]	3				
Starting Inrush Current	L 1					
Worst Case   ji² dt; Ip	[A <sup>2</sup> s]; [A]	≤ 60 ; ≤	200			
Unit Fuse (primary, internal)	[A]	T 5	200			
		transient protection				
Overvoltage Protection Input Operating Temperature Range			i protectio	ווכ		
(measured 5mm from the side wall) [°C]		- 25 0	± 70			
Max. allowed Case-/Radiator-Temperature [°C]		- 25 0 + 70 + 85				
Storage Temperature Range		- 40+	. 85			
Weight approx.	[°C] [kg]	0.6	- 00			
For definitions, informations about electrical safety, EMC and mechanical stressability see description.						
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<sup>\*</sup> Specifications in brackets are output data at T amb =  $-25^{\circ}$ C.

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