

Stand: 29/09

**3 Watt**

# INDUSTRIAL DC/DC Converters

Series: **CFGW2/  
 CMGW2**

Wide input range 1:2  
 Case style: DIP24

**Main Output PWM - regulated  
 & isolated against 2 nd Output**

**base insulation**

to various EN/UL/CSA-regulations for those converters voltage  
 on either input/output-voltage higher than 60VDC less than 120VDC

**Electrical specifications:**

Input voltage: wide 1:2  
 Output voltage accuracy: +/- 3%  
 Line regulation: +/- 0,2%  
 Load regulation: +/- 1%  
 Ambient temperature: -40°C to +71°C  
 Operating temperature: max. +105°C

Efficiency: min. 70%  
 Output Ripple: < 50mVp-p  
 Short circuit protection: fully protected  
 Insulation test voltage: I / O 1000V DC  
 O / O 1000V DC

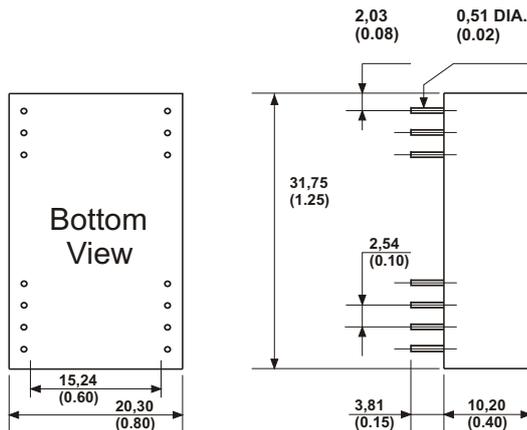
Part-No. /5 External -IN & -OUT / COM connection allowed  
 Case material: CFGW2 - polycarbonat / CMGW2 - metal

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

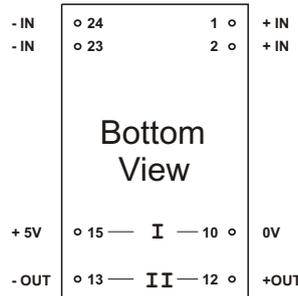
Part - No. Dual	Input Voltage DC	Output I		Output II	
		Voltage DC	Current	Voltage DC	Current
CFGW2-120505 CFGW2-120512 CFGW2-120515	9-18V*	5V	300mA	5V	300mA
			300mA	12V	125mA
			300mA	15V	100mA
CFGW2-240505 CFGW2-240512 CFGW2-240515	16-36V	5V	300mA	5V	300mA
			300mA	12V	125mA
			300mA	15V	100mA
CFGW2-480505 CFGW2-480512 CFGW2-480515	34-75V	5V	300mA	5V	300mA
			300mA	12V	125mA
			300mA	15V	100mA

\* Attention: Initial start-up requires Uin min. 10V, then Uin can drop down to min. 9V without leaving output tolerance.

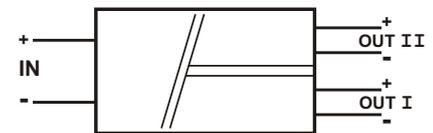
**Any other output voltages available**



**PIN CONNECTION:**



**Isolated-Dual-Output**



**min. Load at Main ≥ 110mA  
 to supply 2nd Output well**

ALL DIMENSIONS IN MM (INCHES)  
 MILLIMETERS +/- 0,5mm  
 ((INCHES +/- 0,02"))  
 All pins on a 2,54mm pitch.

**output capacitor max.**

5V = 47µF ; 5V = 10µF/16V Tantal  
 12V = 10µF/35V Tantal  
 15V = 10µF/35V Tantal

Specification may be changed without notice  
 please contact office for verification

We can offer EMC - Filter  
 according to EN55011/22 Class B.

# INDUSTRIAL DC/DC Converters

**3 Watt Plus**  
**Series: CFGW2/  
 CMGW2**

**Wide input range 1:2**  
**Case style: DIP24**  
**Main Output PWM - regulated**  
**& isolated against Dual outputs**

**base insulation**

to various EN/UL/CSA-regulations for those converters voltage on either input/output-voltage higher than 60VDC less than 120VDC

**Electrical specifications:**

Input voltage: wide 1:2  
 Output voltage accuracy: +/- 2%  
 Line regulation: +/- 0,2%  
 Load regulation: +/- 1%  
 Ambient temperature: -40°C to +71°C  
 Operating temperature: max. +105°C

Efficiency: min. 70%  
 Output Ripple: < 50mVp-p  
 short circuit protection: fully protected  
 Insulation test voltage: I / O 1000V DC  
 O / O 1000V DC

Part-No. /5 External -IN & -OUT / COM connection allowed  
 Case material: CFGW2 - polycarbonat / CMGW2 - metal

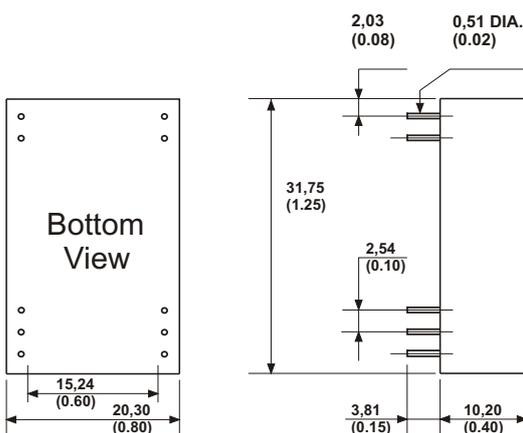
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**Main Output**

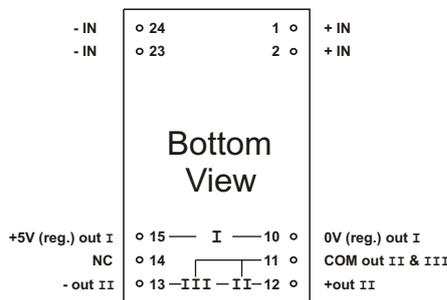
Part - No. Triple	Input Voltage DC	Output I		Output II & III	
		Voltage DC	Current	Voltage DC	Current
CFGW2-120505D CFGW2-120512D CFGW2-120515D	9-18V*	5V	300mA	+/- 5V	+/-150mA
		5V	300mA	+/-12V	+/- 62mA
		5V	300mA	+/-15V	+/- 50mA
CFGW2-240505D CFGW2-240512D CFGW2-240515D	16-36V	5V	300mA	+/- 5V	+/-150mA
		5V	300mA	+/-12V	+/- 62mA
		5V	300mA	+/-15V	+/- 50mA
CFGW2-480505D CFGW2-480512D CFGW2-480515D	34-75V	5V	300mA	+/- 5V	+/-150mA
		5V	300mA	+/-12V	+/- 62mA
		5V	300mA	+/-15V	+/- 50mA

\* Attention: Initial start-up requires U<sub>in</sub> min. 10V, then U<sub>in</sub> can drop down to min. 9V without leaving output tolerance.

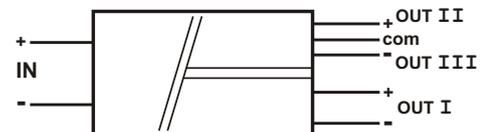
**Any other output voltages available**



**PIN CONNECTION:**



**Isolated-Triple-Output**



**min. Load at Main ≥ 110mA to supply 2nd & 3rd Output well**

ALL DIMENSIONS IN MM (INCHES)  
 MILLIMETERS +/- 0,5mm  
 ((INCHES +/- 0,02")  
 All pins on a 2,54mm pitch.

**output capacitor max.**

5V = 47µF ; ± 5V = je 10µF/16V Tantal  
 ± 12V = je 10µF/35V Tantal  
 ± 15V = je 10µF/35V Tantal

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