

Stand: 23/13

Wide input range 1:2  
PWM - regulated

# INDUSTRIAL DC/DC Converters base insulation

20 Watt  
25 Watt / 30 Watt  
Series: TC2

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	Operating temperature:	-40°C up to +105°C
Output voltage accuracy:	+/- 3%	Ambient temperature:	-40°C to +71°C (* = +50°C only)
Line regulation:	+/- 0,2%	Part-No. /9 Ambient temperature optional:	-55°C to +85°C
Load regulation:	+/- 1%	Optional:	
Efficiency:	up to 86%	Part-No. /0 Enable/Disable	
Output Ripple & Noise:	150mVp-p	Part-No. /2 Adjust output voltage	
Short circuit protection:	continuous	Part-No. /3 Insulation test voltage 3kV AC rms reinforced insulation	
Insulation test voltage:	1000V DC	Part-No. /4 Insulation test voltage 4kV AC rms reinforced insulation	
Case material:	metal (epoxy /3;/4)	Part-No. /5 External -IN & -OUT/COM connection allowed	

### CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Part - No. Single Output	Input Voltage DC	Output Voltage DC	Output Current		
			20W	25W	30W
TC2-1205	9 - 18V	5V	4000mA	5000mA *	
TC2-1212		12V	1670mA	2080mA *	2500mA *
TC2-1215		15V	1330mA	1670mA	2000mA
TC2-1224		24V	833mA	1040mA	1250mA
TC2-1248		48V	417mA	520mA	625mA
TC2-1260		60V	333mA	417mA	500mA
TC2-2405	18 - 36V	5V	4000mA	5000mA	
TC2-2412		12V	1670mA	2080mA	2500mA
TC2-2415		15V	1330mA	1670mA	2000mA
TC2-2424		24V	833mA	1040mA	1250mA
TC2-2448		48V	417mA	520mA	625mA
TC2-2460		60V	333mA	417mA	500mA
TC2-4805	36 - 72V	5V	4000mA	5000mA	
TC2-4812		12V	1670mA	2080mA	2500mA
TC2-4815		15V	1330mA	1670mA	2000mA
TC2-4824		24V	833mA	1040mA	1250mA
TC2-4848		48V	417mA	520mA	625mA
TC2-4860		60V	333mA	417mA	500mA

**Part-Nr. /0**  
Logic compatibility TTL  
ON: E/D-Pin open or >=4,6 ... 5,5V  
OFF: E/D-Pin <=0,6V  
Area between 0,6V ... 4,6V undefined

**Part-Nr. /2**

$R_{Adj} \geq xR \leq xR$   
5V 3k 5k  
15V

Do not use converter without R<sub>Adj</sub> !

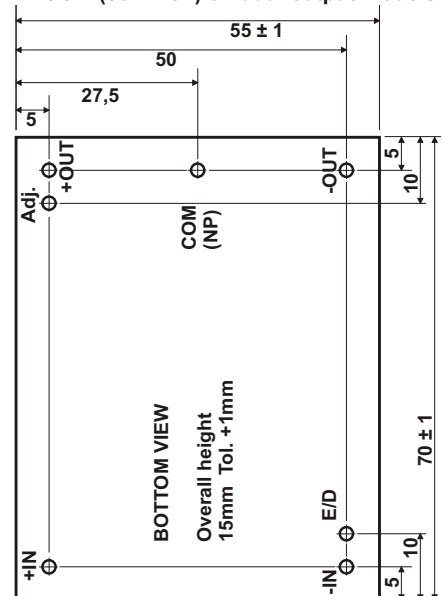
Part - No. Dual Output	Input Voltage DC	Output Voltage DC	Output Current		
			20W	25W	30W
TC2-1205D	9 - 18V	+/- 5V	+/-2000mA	+/-2500mA *	
TC2-1212D		+/-12V	+/- 835mA	+/-1040mA *	+/-1250mA *
TC2-1215D		+/-15V	+/- 665mA	+/- 835mA	+/-1000mA
TC2-1224D		+/-24V	+/- 417mA	+/- 520mA	+/- 625mA
TC2-1248D		+/-48V	+/- 209mA	+/- 260mA	+/- 313mA
TC2-1260D		+/-60V	+/- 167mA	+/- 209mA	+/- 250mA
TC2-2405D	18 - 36V	+/- 5V	+/-2000mA	+/-2500mA	
TC2-2412D		+/-12V	+/- 835mA	+/-1040mA	+/-1250mA
TC2-2415D		+/-15V	+/- 665mA	+/- 835mA	+/-1000mA
TC2-2424D		+/-24V	+/- 417mA	+/- 520mA	+/- 625mA
TC2-2448D		+/-48V	+/- 209mA	+/- 260mA	+/- 313mA
TC2-2460D		+/-60V	+/- 167mA	+/- 209mA	+/- 250mA
TC2-4805D	36 - 72V	+/- 5V	+/-2000mA	+/-2500mA	
TC2-4812D		+/-12V	+/- 835mA	+/-1040mA	+/-1250mA
TC2-4815D		+/-15V	+/- 665mA	+/- 835mA	+/-1000mA
TC2-4824D		+/-24V	+/- 417mA	+/- 520mA	+/- 625mA
TC2-4848D		+/-48V	+/- 209mA	+/- 260mA	+/- 313mA
TC2-4860D		+/-60V	+/- 167mA	+/- 209mA	+/- 250mA

### Any other output voltages available

All specifications typical @ Ta +25°C  
Nom. Vin & full load, unless otherwise specified!

Note: Pin size is 1mm diameter

ALL DIMENSIONS IN MM  
MILLIMETERS +/-0,25mm  
NP (no pin) on single output models  
COM (common) on dual output models



Specification may be changed without notice  
please contact office for verification

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