

single output

# INDUSTRIAL DC/DC Converters PWM - regulated

**20 Watt**  
**Series: TC**

## Electrical specifications:

Input voltage: +/- 10%  
Output voltage accuracy: +/- 3%  
Line regulation: +/- 0,2%  
Load regulation: +/- 1%  
Efficiency: min. 65%  
Output Ripple & Noise: 150mVp-p  
Short circuit protection: continuous  
Insulation test voltage: 1000V DC  
Case material: metal  
epoxy /3; /4

Ambient temperature: -40°C to +71°C  
Part-No. /9 Ambient temperature optional: -55°C to +85°C  
Operating temperature: max. +105°C  
Optional:  
Part-No. /0 Enable/Disable  
Part-No. /2 Adjust output voltage  
Part-No. /3 Insulation test voltage 3kV AC rms  
Part-No. /4 Insulation test voltage 4kV AC rms  
Part-No. /5 External -IN & -OUT/COM connection allowed

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

| Part - No.<br>Single Output | Input Voltage<br>DC | Output Voltage<br>DC | Output Current<br>20W |
|-----------------------------|---------------------|----------------------|-----------------------|
| TC-0505                     | 4,5 - 5,5V          | 5V                   | 4000mA                |
| TC-0512                     |                     | 12V                  | 1670mA                |
| TC-0515                     |                     | 15V                  | 1330mA                |
| TC-0524                     |                     | 24V                  | 833mA                 |
| TC-0528                     |                     | 28V                  | 714mA                 |
| TC-0548                     |                     | 48V                  | 417mA                 |
| TC-0560                     |                     | 60V                  | 333mA                 |

Any other output voltages available

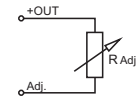
### Part-Nr. /0

Logic compatibility TTL  
ON: E/D-Pin open or  
>=4,6 ... 5,5V

OFF: E/D-Pin <=0,6V

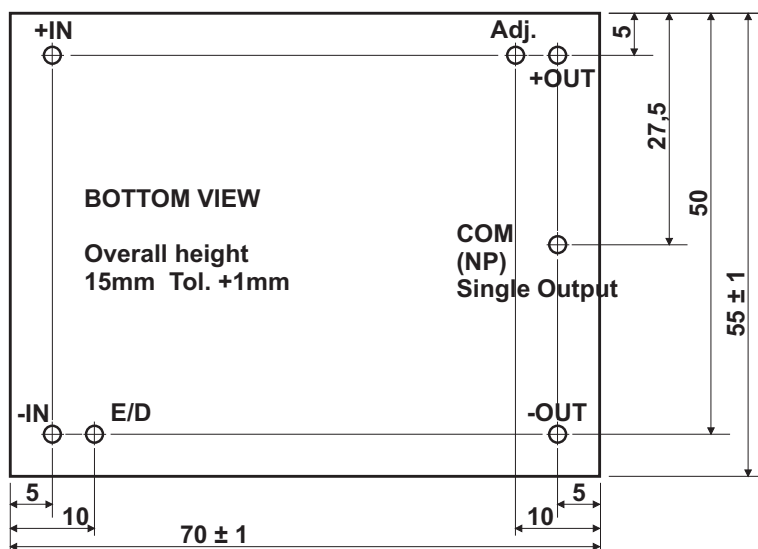
Area between  
0,6V ... 4,6V undefined

### Part-Nr. /2



$R_{Adj} \geq xR \leq xR$   
5V  
12V 3k 5k  
15V

Do not use converter  
without  $R_{Adj}$  !



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

Note: Pin size is 1mm diameter

Specification may be changed without notice  
please contact office for verification

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

Triple output

# INDUSTRIAL DC/DC Converters

7 Watt  
Series: TC

PWM - regulated

## Electrical specifications:

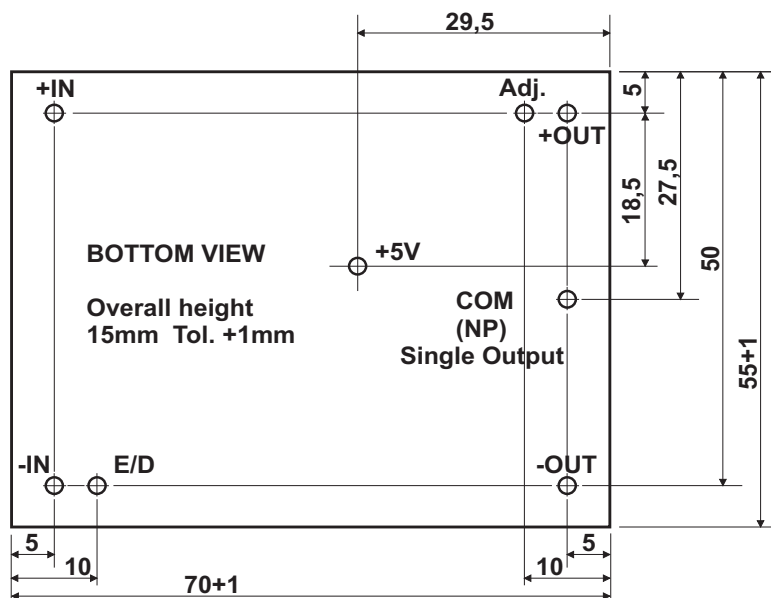
Input voltage: +/- 10%  
Output voltage accuracy: +/- 3%  
Line regulation: +/- 0,3%  
Load regulation: +/- 0,6%  
Efficiency: min. 65%  
Output Ripple & Noise: 150mVp-p continuous  
Short circuit protection: 1000V DC  
Insulation test voltage: metal  
Case material: epoxy /3; /4

Ambient temperature: -40°C to +71°C  
Part-No. /9 Ambient temperature optional: -55°C to +85°C  
Operating temperature: max. +105°C  
Optional:  
Part-No. /0 Enable/Disable  
Part-No. /2 Adjust output voltage  
Part-No. /5 External -IN & -OUT/COM connection allowed

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

| Part - No.<br>Single Output | Input Voltage<br>DC | Output Voltage<br>DC | Output<br>Current | Output Voltage<br>DC | Output<br>Current |
|-----------------------------|---------------------|----------------------|-------------------|----------------------|-------------------|
| TC-2410D05                  | 21,6 - 26,4V        | +/-10V               | +/-50mA           | 5V                   | 1A                |

Any other output voltages available



**Part-Nr. /0**  
Logic compatibility TTL  
ON: E/D-Pin open or  $\geq 4,6 \dots 5,5V$   
OFF: E/D-Pin  $\leq 0,6V$   
Area between 0,6V ... 4,6V undefined

**Part-Nr. /2**

$R_{Adj} \geq xR \leq xR$   
5V 12V 15V 3k 5k

Do not use converter without  $R_{Adj}$  !

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

Note: Pin size is 1mm diameter