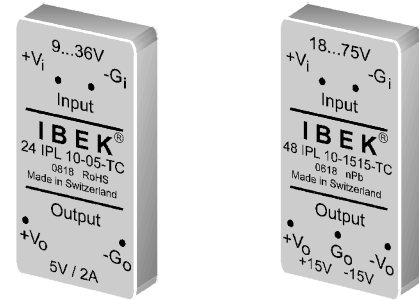


**Single & double outputs**  
**Input to output isolated**

- Ultra wide 1:4 input voltage ranges
- Shutdown input (optional)
- I/O Electric strength test voltage 1500 VDC
- Very high efficiency up to 86%
- Continuous no-load and short-circuit proof
- 2" x 1" x 0.41" case with industrial standard pinning
- No derating
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



**Electromagnetic emission EN 55022 < A**  
Conducted and radiated emissions

	24 IPL	48 IPL	
No load input current	12	8	mA typ.
Input current in shutdown condition	1.3 mA typ.		
Switching frequency	400 kHz typ.		
Output voltage accuracy	± 1% max.		
Static line regulation	± 30 mV typ.		
Static load regulation FL to 10%	0...25 mV typ.		
Output voltage noise (20 MHz BW)	Single	180 / 80 <sup>1</sup>	100 / 30 <sup>1</sup> mVpp typ.
	Double	50 <sup>2</sup>	50 <sup>2</sup> mVpp typ.
Efficiency	83% to 86% typ.		
I/O Electric strength test voltage	1500 VDC		
Coupling capacitance	1000 pF		
Shutdown input (SD) :	Apply -0.3...+0.6 VDC to shut down (switch off) the output voltage(s). Normal operation with open pin.		
Ambient temperature range	-25...+71°C		
Case temperature range	-25...+95°C		
Storage temperature range	-55...+105°C		
Case material	Metal with plastic bottom cover, UL94 V-0 rated		
MTBF, GB @ 40°C case (MIL-HDBK-217F, Notice 2)	> 1.500.000 hours		

Standard Types <sup>3</sup>	Input voltage VDC	Output	
		VDC	mA
Single output	9...36 (nominal 24)	5	2000
xx IPL10-05-TC RoHS		12	833
xx IPL10-12-TC RoHS		15	667
Double output <sup>4</sup>	18...75 (nominal 48)	± 5	± 1000
xx IPL10-0505-TC RoHS		± 12	± 417
xx IPL10-1212-TC RoHS		± 15	± 333
xx IPL10-1515-TC RoHS			

<sup>3</sup> To complete type number replace "xx" by the required nominal input voltage, e.g. 24 IPL10-05-TC RoHS.

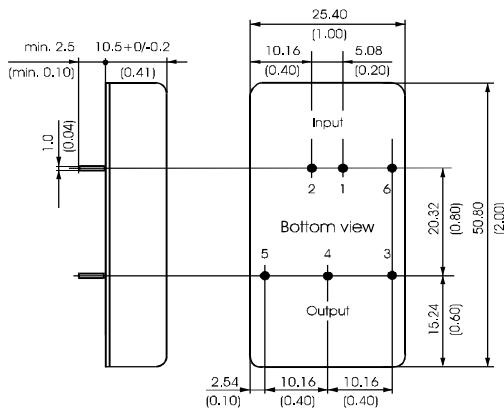
<sup>4</sup> Double outputs should have symmetrical load conditions to comply with the specifications listed on the left side.

Modifications and customs are available upon request.

<sup>1</sup> The lower value is achieved with two external multi-layer ceramic capacitors of 0.47µF installed across the output pins.

<sup>2</sup> The negative (-) line of a double output unit requires two multi-layer ceramic capacitors of 0.47µF installed across the output pins to achieve this value.

Dimensions in mm (inches)



Pin Configuration		
Pin	Single output	Double output
1	+Vi	+Vi
2	-Gi	-Gi
3	+Vo	+Vo
4	No pin	Go
5	-Go	-Vo
6 <sup>5</sup>	SD	SD

<sup>5</sup> Optional shutdown pin. If required replace C by G on type number, e.g. 24 IPL10-05-TG RoHS.