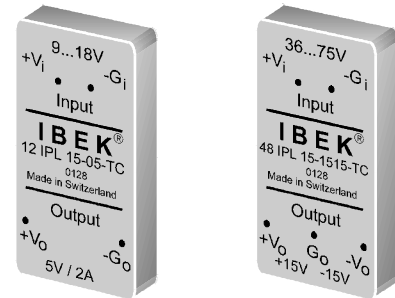


Single & double outputs
Input to output isolated

- Wide 1:2 input voltage ranges
- Shutdown input (optional)
- I/O Electric strength test voltage 1500 VDC
- Very high efficiency up to 88%
- Highest power density
- Continuous no-load and short-circuit proof
- 2" x 1" x 0.41" case with industrial standard pinning
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



Electromagnetic emission EN 55022 < A

Conducted and radiated emissions

	12 IPL	24 IPL	48 IPL	
No load input current	16	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...50 mV typ.			
Output voltage noise (20 MHz BW)	Single 250 / 80 ¹	120 / 50 ¹	180 / 50 ¹	15 VDC outputs mVpp typ.
	Double 60 ²	60 ²	60 ²	mVpp typ.
Efficiency	80% to 88% 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 ³			
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	Input voltage VDC	Output	
		VDC	mA
Single output 12 IPL 15-05-TC 12 IPL 15-12-TC 12 IPL 15-15-TC	9...18 (nominal 12)	5	2000
		12	1000
		15	800
Double output ⁴ 12 IPL 15-0505-TC 12 IPL 15-1212-TC 12 IPL 15-1515-TC		± 5	± 1000
		± 12	± 500
		± 15	± 400
Single output xx IPL 15-05-TC ⁵ xx IPL 15-12-TC ⁵ xx IPL 15-15-TC ⁵	18...36 (nominal 24)	5	2500
		12	1250
		15	1000
Double output ⁴ xx IPL 15-0505-TC ⁵ xx IPL 15-1212-TC ⁵ xx IPL 15-1515-TC ⁵	36...75 (nominal 48)	± 5	± 1250
		± 12	± 625
		± 15	± 500

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

⁵ To complete type number replace "xx" by the required nominal input voltage, e.g. 12 IPL 15-05-TC.

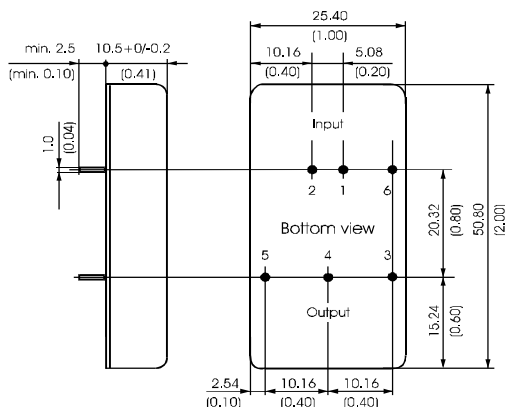
Modifications and customs are available upon request.

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

² 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.

³ Power derating 3%/°C above 60°C

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 ⁶	SD	SD

⁶ Optional shutdown pin. If required replace C by G on type number, e.g. 12 IPL 15-05-TG.