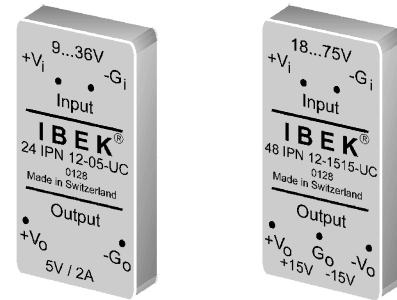


Single & double outputs
Input to output isolated

- Ultra wide 1:4 input voltage ranges
- Shutdown input (optional)
- Very high efficiency up to 85%
- Low output voltage noise
- 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

NEW!



Electromagnetic emission EN 55022 < A

Conducted and radiated emissions

	24 IPN	48 IPN
No load input current	15	10
Input current in shutdown condition	1.3 mA typ.	
Switching frequency	400 kHz typ.	
Output voltage accuracy	± 1% max.	
Static line regulation	± 0.3% typ.	
Static load regulation FL to 10%	0...0.5% typ.	
Output voltage noise (20 MHz BW)	50 mVpp typ. ¹ ; 3.3 VDC outputs 30 mVpp typ.	
Efficiency	80% to 85% 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	-40...+65°C	
Case temperature range	-40...+100°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 ²	Input voltage VDC	Output	
		VDC	mA
Single output	9...36 (nominal 24)	3.3	2400
xx IPN12-03-UC		5	2000
xx IPN12-12-UC		12	1000
xx IPN12-15-UC		15	800
Double output ³	18...75 (nominal 48)	± 5	± 1000
xx IPN12-0505-UC		± 12	± 500
xx IPN12-1212-UC		± 15	± 400
xx IPN12-1515-UC			

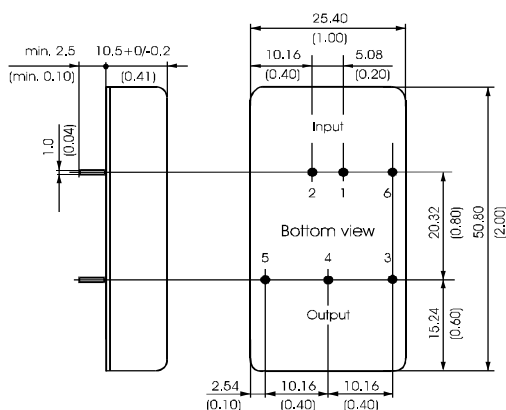
² To complete type number replace "xx" by the required nominal input voltage, e.g. 24 IPN12-05-UC.

³ Double outputs should have symmetrical load conditions to comply with the specifications listed on the left side.

Modifications and customs are available upon request.

¹ 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 ⁴	SD	SD

⁴ Optional shutdown pin. If required replace C by G on type number, e.g. 24 IPN12-05-UG.