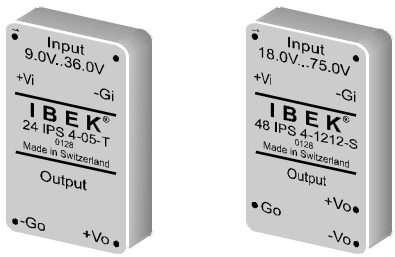
Single & double outputs
Input to output isolated

- Ultra wide 1:4 input voltage ranges
- Shutdown input (optional)
- Very high efficiency up to 83%
- High reliability
- Continuous no-load and short-circuit proof
- Extended ambient temperature range -40…+85ºC
- DIL 24 case, h = 0.41”
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



Electromagnetic emission EN 55022 < B
Conducted and radiated emissions

	24 IPS	48 IPS	
No load input current	5	3	mA typ.
Input current in shutdown condition	1.3 mA typ.		
Switching frequency	130 kHz typ.		
Output voltage accuracy	± 1% max. at ½ L		
Static line regulation	± 0.5% typ.		
Static load regulation	± 3% typ. (½ L … 10% and ½ L … FL)		
Output voltage noise (20 MHz BW)	5 VDC	12 VDC	15 VDC outputs
	100	120	150 mVpp typ.
Efficiency	79% to 83% typ.		
I/O Electric strength test voltage	1500 VDC		
Coupling capacitance	1000 pF		
Shutdown input (SD)	Apply -0.3…+1.35 VDC / 100…200 µA to shut down (switch off) the output voltage(s). Normal operation with open pin.		
Ambient temperature range	-T: -25…+71ºC; -S: -40…+85ºC [1]		
Case temperature range	-T: -25…+95ºC; -S: -40…+105ºC		
Storage temperature range	-T: -55…+105ºC; -S: -55…+105ºC		
Case material	Non-conductive plastic, UL94 V-0 rated		
MTBF, GB @ 40ºC case (MIL-HDBK-217F, Notice 2)	> 2.000.000 hours		

[1] Power derating from 100% to 90% load for 71ºC to 85ºC

Standard Types [2]	Input voltage VDC	Output VDC	Output mA
Single output			
xx IPS4-05-T	9…36	5	700
xx IPS4-12-T	(nominal 24)	12	340
xx IPS4-15-T	45 V for 10 ms repetition rate 10 s	15	280
Double output [3]			
xx IPS4-0505-T		± 5	± 350
xx IPS4-1212-T	18…75	± 12	± 170
xx IPS4-1515-T	(nominal 48)	± 15	± 140

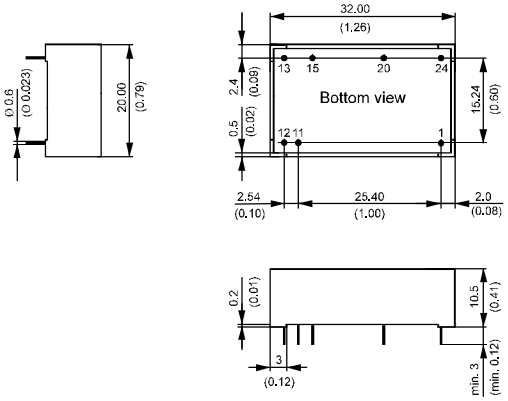
[2] To complete type number replace "xx" by the required nominal input voltage, e.g. 24 IPS4-05-T.

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

Extended temperature range -S is available for all types.
Replace -T by -S on type number, e.g. 48 IPS4-1212-S.

Modifications and customs are available upon request.

Dimensions in mm (inches)



Pin Configuration		
Pin	Single output	Double output
1	+Vi	+Vi
11	No Pin	Go
12	-Go	No Pin
13	+Vo	-Vo
15	No Pin	+Vo
20 [4]	i	i
24	-Gi	-Gi

[4] Optional shutdown pin. If required add i to type number, e.g. 24 IPS4-05-Ti.