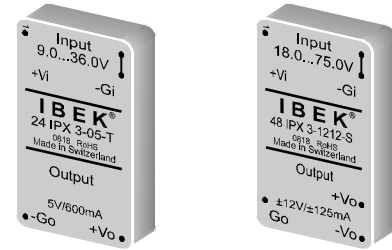


**Single & double outputs**  
**Input to output high isolated**  
**I/O Electric strength test voltage 4.2 kVDC, 3 kVrms**

- Ultra wide 1:4 input voltage ranges up to 156 VDC
- I/O Clearance and creepage distances 2 mm
- High reliability
- Continuous no-load and short-circuit proof
- Extended ambient temperature range -40...+85°C
- DIL 24 case, h = 0.41"
- No derating
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



**Safety according to EN 60950 / UL 1950**

- Insulation between adjacent primary circuits or between primary and secondary circuits:
- Operational-, Basic- and Supplementary insulation for working voltages up to 420 VDC / 300 VAC
  - Reinforced insulation for working voltages up to 210 VDC / 150 VAC

- Insulation between adjacent secondary circuits:
- Operational-, Basic-, Supplementary and Reinforced insulation for working voltages up to 420 VDC / 300 VAC

**Electromagnetic emission EN 55022 < B**

Conducted and radiated emissions  
110 IPX3-types: EN 55022 < A; with external coupling capacitor C<sub>io</sub> = 1 nF < B

	5 IPX	24 IPX	48 IPX	110 IPX	
No load input current	25	5	3	1.5	mA typ.
Switching frequency					130 kHz typ.
Output voltage accuracy					± 1% max.; 5 VDC outputs +1/-2% max.
Static line regulation					± 0.5% typ.
Static load regulation FL to ¼ L					0...5% typ.
Output voltage noise (20 MHz BW)	100	120	150	mVpp typ.	
Efficiency					78% to 83% typ.
I/O Electric strength test voltage					4.2 kVDC, 3 kVrms (50 Hz, 1 min.)
I/O Clearance and creepage distances					2 mm all over (incl. transformer) approx. 7 pF
Coupling capacitance					approx. 7 pF
Ambient temperature range					-T: -25...+71°C; -S: -40...+85°C
Case temperature range					-T: -25...+95°C; -S: -40...+105°C
Storage temperature range					-T: -55...+105°C; -S: -55...+105°C
Case material					Non-conductive plastic, UL94 V-0 rated
MTBF, GB @ 40°C case					> 3.900.000 hours
(MIL-HDBK-217F, Notice 2)					

Standard Types <sup>1</sup>	Input voltage VDC	Output	
		VDC	mA
Single output	4.75...16 (nominal 5)	5	600
xx IPX 3-05-T RoHS	9...36 (nominal 24) 45 V for 10 ms repetition rate 10 s	12	250
xx IPX 3-12-T RoHS		15	200
xx IPX 3-15-T RoHS		Double output <sup>2</sup>	
xx IPX 3-0505-T RoHS	18...75 (nominal 48)	± 5	± 300
xx IPX 3-1212-T RoHS	36...156 (nominal 110)	± 12	± 125
xx IPX 3-1515-T RoHS		± 15	± 100

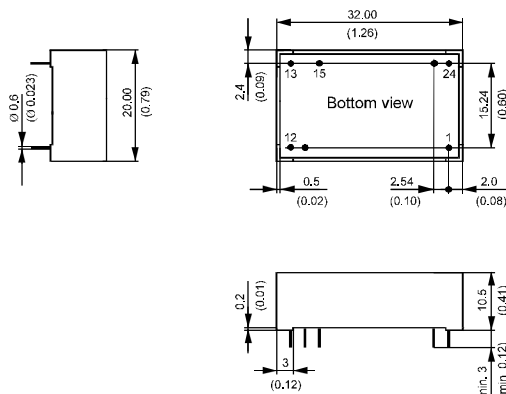
<sup>1</sup> To complete type number replace "xx" by the required nominal input voltage, e.g. 24 IPX3-05-T RoHS.

<sup>2</sup> 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 IPX3-1212-S RoHS.

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
23	-Gi	-Gi
24	-Gi	-Gi

Specifications subject to change without notice