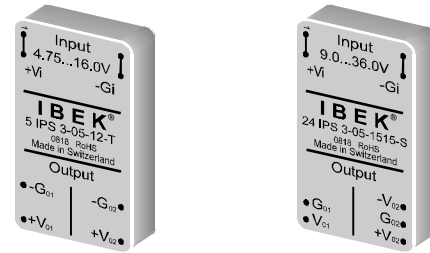


**Single, double, dual & triple outputs**  
**Input to output isolated**  
**Dual & triple outputs: Output1 to output2(3) isolated**

- Ultra wide 1:4 input voltage ranges
- Shutdown input
- Very high efficiency up to 83%
- High reliability
- Continuous no-load and short-circuit proof
- Extended ambient temperature range -40...+85°C
- No derating
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



**Electromagnetic emission EN 55022 < B**

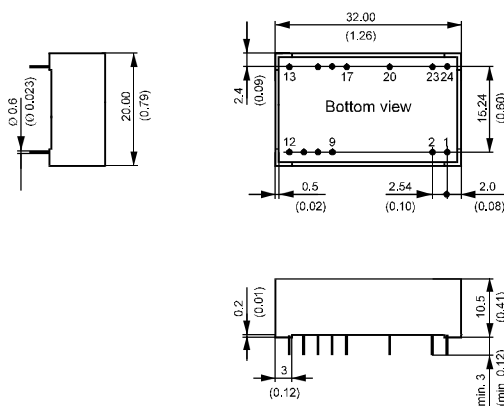
Conducted and radiated emissions  
(Triple outputs upon request)

	5 IPS	24 IPS	48 IPS	
No load input current	25	5	3	mA typ.
Input current in shutdown condition	1.3 mA typ.			
Switching frequency	130 kHz typ.			
Output voltage accuracy	± 2% max.			
Static line regulation	± 15 mV typ.			
Static load regulation FL to ¼ L	0...2%; 5 VDC outputs 0...5% typ.			
Output voltage noise (20 MHz BW)	100 mVpp typ.			
Efficiency	79% to 83% typ.			
I/O Electric strength test voltage	1500 VDC			
O/O Electric strength test voltage	700 VDC			
Coupling capacitance	300 pF			
Shutdown input (SD)	Apply -0.3...+1.35 VDC / 100...200 µA <sup>1</sup> to shut down (switch off) the output voltage(s). Normal operation with open pin.			

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	> 2.200.000 hours
(MIL-HDBK-217F, Notice 2)	

<sup>1</sup> 5 IPS3-types: -0.3...+0.6 VDC / 500...700 µA

Dimensions in mm (inches)



Standard Types <sup>2</sup>	Input voltage VDC	Output 1		Output 2	
		VDC	mA	VDC	mA
Single output	4.75...16 (nominal 5)	5	500	-	-
xx IPS3-05-T RoHS		12	250	-	-
xx IPS3-12-T RoHS		15	200	-	-
Double output <sup>3</sup>	9...36 (nominal 24)	± 5	± 250	-	-
xx IPS3-0505-T RoHS	45 V for 10 ms repetition rate 10 s	± 12	± 125	-	-
xx IPS3-1212-T RoHS		± 15	± 100	-	-
xx IPS3-1515-T RoHS					
Dual output	18...75 (nominal 48)	5	250	5	250
xx IPS3-05-05-T RoHS		5	250	12	125
xx IPS3-05-12-T RoHS		5	250	15	100
xx IPS3-05-15-T RoHS		12	125	12	125
xx IPS3-12-12-T RoHS		15	100	15	100
Triple output <sup>4</sup>					
xx IPS3-05-1212-T RoHS		5	300	± 12	± 62
xx IPS3-05-1515-T RoHS		5	300	± 15	± 50

<sup>2</sup> To complete type number replace "xx" by the required nominal input voltage, e.g. 5 IPS3-05-12-T RoHS.

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

<sup>4</sup> Not available with input voltage range 4.75...16 VDC.

Extended temperature range -S is available for all types. Replace -T by -S on type number, e.g. 24 IPS3-05-1515-S RoHS.

Modifications and customs are available upon request.

Pin Configuration				
Pin	Single output	Double output	Dual output	Triple output
1	+Vi	+Vi	+Vi	+Vi
2	+Vi	+Vi	+Vi	+Vi
9	No Pin	No Pin	-Go1	No Pin
10	No Pin	Go	No Pin	Go1
11	No Pin	Go	No Pin	No Pin
12	-Go	No Pin	+Vo1	Vo1
13	+Vo	-Vo	+Vo2	+Vo2
15	No Pin	+Vo	No Pin	Go2
16	No Pin	No Pin	-Go2	No Pin
17	No Pin	No Pin	No Pin	-Vo2
20	SD	SD	SD	SD
23	-Gi	-Gi	-Gi	-Gi
24	-Gi	-Gi	-Gi	-Gi

Specifications subject to change without notice