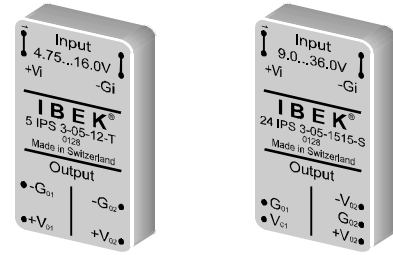


**Single, double, dual & triple outputs**  
**Input to output isolated**  
**Dual & triple outputs: Output1 to output2(3) isolated**

- 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**

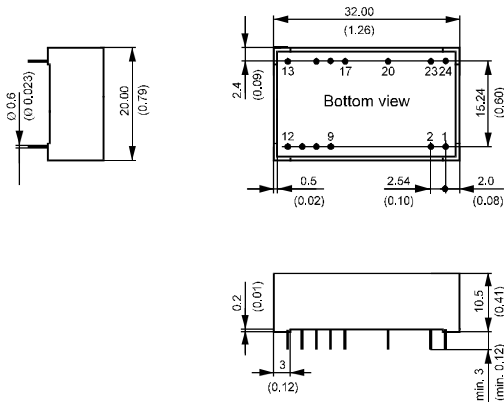
Conducted and radiated emissions  
(Triple outputs upon request)

|                                     | 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).<br>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                      |

<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<br>xx IPS3-05-T<br>xx IPS3-12-T<br>xx IPS3-15-T  | 4.75...16<br>(nominal 5)   | 5<br>12<br>15           | 500<br>250<br>200               | -<br>-<br>-               | -<br>-<br>-                     |
| Double output <sup>3</sup><br>xx IPS3-0505-T<br>xx IPS3-1212-T<br>xx IPS3-1515-T                           | 9...36<br>(nominal 24)<br>45 V for 10 ms<br>repetition rate 10 s | ± 5<br>± 12<br>± 15     | ± 250<br>± 125<br>± 100         | -<br>-<br>-               | -<br>-<br>-                     |
| Dual output<br>xx IPS3-05-05-T<br>xx IPS3-05-12-T<br>xx IPS3-05-15-T<br>xx IPS3-12-12-T<br>xx IPS3-15-15-T | 18...75<br>(nominal 48)  | 5<br>5<br>5<br>12<br>15 | 250<br>250<br>250<br>125<br>100 | 5<br>12<br>15<br>12<br>15 | 250<br>125<br>100<br>125<br>100 |
| Triple output <sup>4</sup><br>xx IPS3-05-1212-T<br>xx IPS3-05-1515-T                                       |  | 5<br>5                  | 300<br>300                      | ± 12<br>± 15              | ± 62<br>± 50                    |

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

<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.

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           |