

Typical Performance

**FEATURES**

- Fixed Input, isolation, regulated output,dual output,1W
- Isolation voltage: 3000VDC
- SIP package
- Efficiency :up to 80%
- Working temperature -40℃~+85℃
- MTBF≥35x10<sup>5</sup>Hrs
- Industry standard pinout
- No heat sink required
- No external component required
- In line with RoHS codes
- Line regulation (for Vin change of ±5%): ±0.25%(max)
- Load regulation (10%-100% load) :1%
- Ripple(20MHz Band width) <20mVp-p,noise(20MHz Band width)<100mVp-p
- Temperature drift(100% full load):±0.03%/℃(max)
- Switching Frequency(Full load,nominal input):100Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:130Pf(typ)
- Cooling:Free air convection



Product Program

Part #	Input voltage range	Nominal output voltage / output current						Efficiency (%, typ)
		VO1			VO2			
		Voltage	Min	Max	Voltage	Min	Max	
IE0505S-1W	5V (4.75~5.25VDC)	±5	±100					54
IE0509S-1W		±9	±56					63
IE0512S-1W		±12	±42					63
IE0515S-1W		±15	±33					65
IE1205S-1W	12 V (11.4~12.6VDC)	±5	±100					56
IE1209S-1W		±9	±56					62
IE1212S-1W		±12	±42					65
IE1215S-1W		±15	±33					66
IE2405S-1W	24V(22.8~25.2VDC)	±5	±100					54
IE2409S-1W		±9	±56					62
IE2412S-1W		±12	±42					64

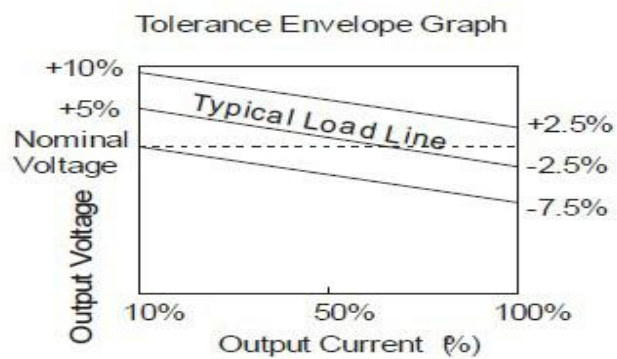
IE2415S-1W		±15	±33					66
IE2424S_1W		±24	±20					66

□ Shows the nominal value of input voltage, due to space limitations, the above list is only for some products, if other than a list of products, please contact the Company's sales department.

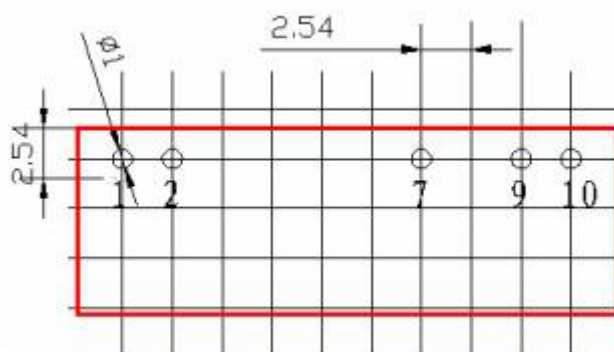
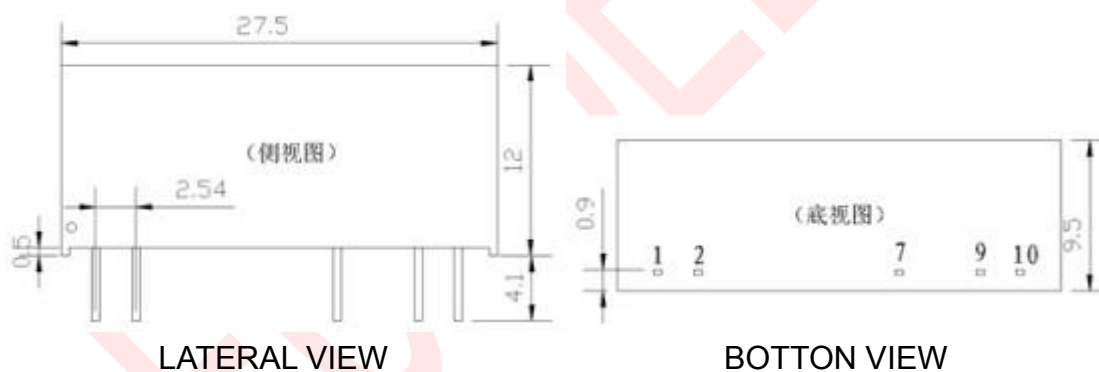
### Mechanical Data

Packing Code	L x W x H : mm	Packing No.
IE_S-1W	27.5*9.5*12	

### Typical Temperature Curve



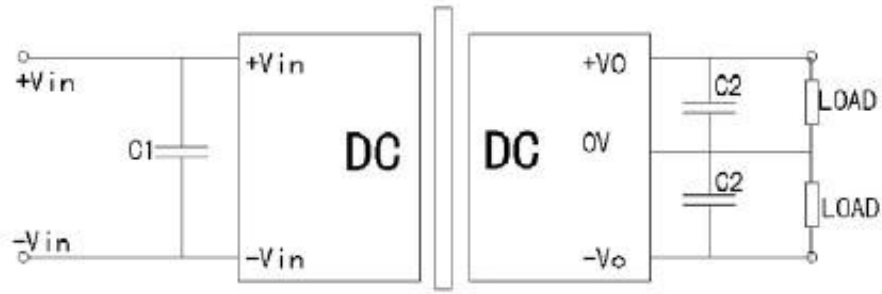
### Mechanical Dimension



### Pin Assignment

PIN	1	2	7	9	10				
Dual output	Vin	GND	+Vo	-Vo	0V				

### Recommend Circuit



### C1, C2 select

Dual O/P			
INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7uF	±5 VDC	4.7uF
12VDC	2.2uF	±9 VDC	2.2 uF
24VDC	0.47uF	±12 VDC	1 uF
---	---	±15 VDC	0.47 uF

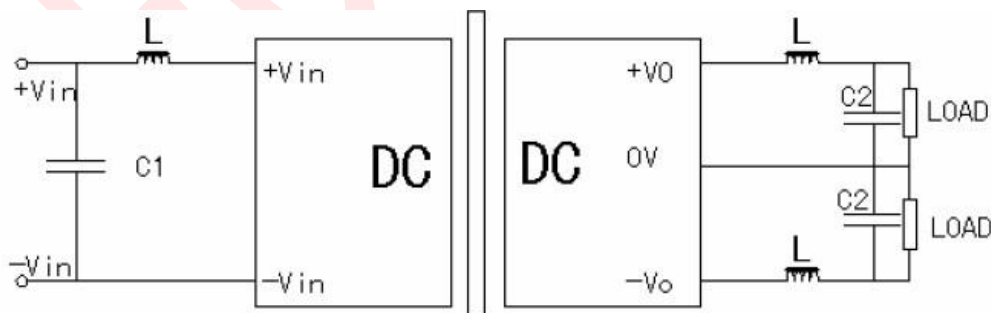
### Application Note

(1)PIs don't use under no load: when the load power is less than 10% of the rated power ,we advise to connect the resistance following the output or the selection the smaller rated power module,for the resistance,the value is 5~10% of the rated power, $\text{resistance} = U_2 / (10\% \times 1W)$

(2)PIs don't connect the excessive capacitor in external circuit :output connects C2's value can't be too big,, otherwise easily lead to module startup flow or poor starting,

According to the external table to select the capacitance

(3)For the ripple&noise with higher requirements ,we advise to connect the LC filter, the frequency of LC filter is far smaller than the DC / DC module switching frequency, prevent mutual interference, resulting in increased the ripple damage the power module



\*Note: The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.