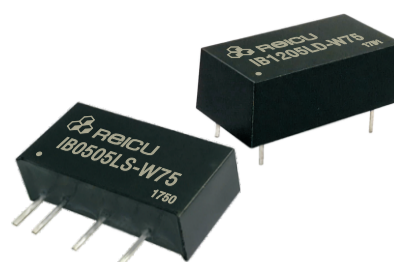


**Features**

- Efficiency up to 74%
- I/O-Isolation 1600VDC
- Single output
- Regulated output
- Short circuit protection
- Small Size
- Low ripple and noise
- Wide temperature performance: -40°C to 85°C



**Model Selection Guide**

Order Code	Vin(V)		Output		Max capacitive Load	Efficiency(%) (Typ)
	Nominal	Range	Vo(V)	Io(mA)		
IB0505LS/LD-W75	5	4.75-5.25	5	150	220	69
IB0509LS/LD-W75			9	83	220	70
IB0512LS/LD-W75			12	63	100	71
IB0515LS/LD-W75			15	50	100	73
IB0524LS/LD-W75			24	31	68	69
IB1205LS/LD-W75	12	11.4-12.6	5	150	220	68
IB1209LS/LD-W75			9	83	220	72
IB1212LS/LD-W75			12	63	100	72
IB1215LS/LD-W75			15	50	100	74
IB1224LS/LD-W75			24	31	68	72
IB2405LS/LD-W75	24	22.8-25.2	5	150	220	68
IB2409LS/LD-W75			9	83	220	71
IB2412LS/LD-W75			12	63	100	73
IB2415LS/LD-W75			15	50	100	75
IB2424LS/LD-W75			24	31	68	72

\*All the specifications typical at Ta=+25°C resistive load, nominal input voltage and rated output current unless otherwise noted.

**Input Characteristics**

Parameter	Condition	Min	Typ	Max	Units
Input Surge Voltage (1 sec. Max.)	3.3V Input Models	-0.7	--	6	VDC
	5V Input Models	-0.7	--	9	
	12V Input Models	-0.7	--	18	
	24V Input Models	-0.7	--	30	
Input Filter	All Models	Internal Capacitor			

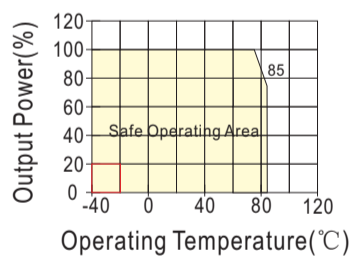
**Output Characteristics**

Parameter	Condition	Min	Typ	Max	Units
Output voltage accuracy	10%~100% load	--	±1	±2	%
Line regulation	Vin change 5%	±0.15	--	±0.2	%
Switching frequency	Full load, nominal input	--	100	--	KHz
Load regulation	10%~100% load	--	±1	--	%
Ripple and noise	BW=DC to 20MHz	--	50	75	mVp-p
Short circuit Protection	Continuous, Automatic Recovery				

**General Characteristics**

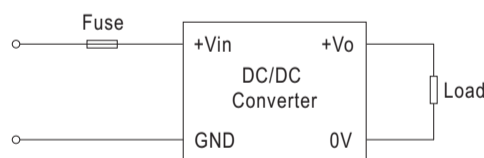
Parameter	Condition	Min	Typ	Max	Units
Operating Temperature	All output types	-40	--	+85	°C
Storage		-55	--	+125	°C
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	1mA≤1minute	--	1600	--	VDC
Isolation resistance	500VDC	1000	--	--	MΩ
MTBF	3.5×10 <sup>6</sup>				K hours

**Temperature Derating Graph Curve**



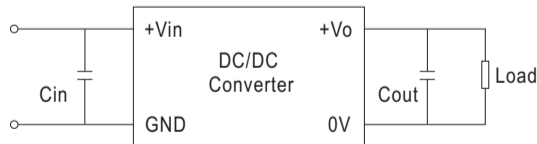
**Overload Protection**

IB series products has no protection against overload. Recommend to add a circuit breaker to the circuit.



**Input/Output Ripple Reduction**

Reduce output ripple, it is recommended to use capacitors at the input/output.



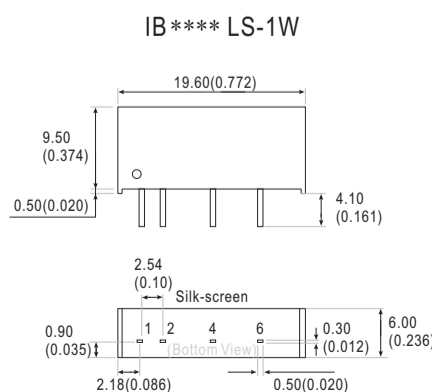
**External Capacitor Table**

Parameter	5	12	15	24	
Vin(VDC)	5	12	15	24	
Cin(uF)	4.7	2.2	2.2	1	
Vout(VDC)	5	9	12	15	24
Cout(uF)	10	4.7	2.2	1	0.47

**Note**

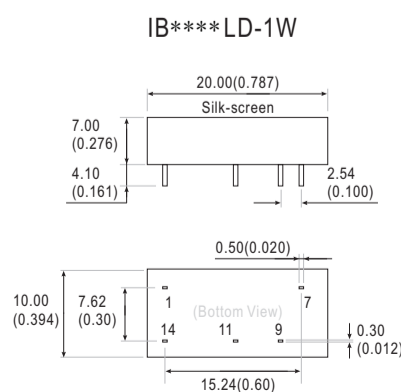
- 1.To ensure this module can operate efficiently and reliably, During operation, the minimum output load is not less than 10% of the full load.
- 2.Other input and output voltage may be available, please
- 3.Specifications subject to change without notice

**Mechanical Dimension & Pin Connections**



Pin	1	2	4	6
Function	Vin	GND	-Vo	+Vo

Note:  
Unit:mm(inch)



Pin	1	7	9	11	14
Function	GND	NC	+Vo	-Vo	Vin