

# DC-DC CONVERTER

## BXXXXLS-1W

1KV ISOLATION, 1W OUTPUT, UNREGULATED, SIP 7 PACKAGE, MTBF>1M HOURS

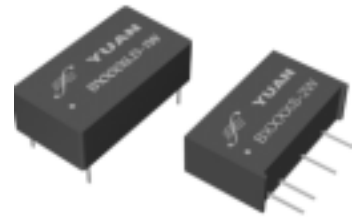
### Available Inputs:

5, 12, 15 and 24 VDC

### Available Outputs:

3.3, 5, 9, 12, 15, 18 and 24 VDC

Other specifications please enquire Sunyuan Technology.



### Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

#### Input Specifications

Voltage range	+/- 10 %
Filter	Capacitors
Isolation Specifications	
Rated voltage	1000 VDC
Leakage current	1 mA
Resistance	10 <sup>9</sup> Ohm
Capacitance	60 pF type.

#### Output Specifications

Voltage accuracy	+/- 5 %, max.
Ripple and noise (at 20 MHz BW)	75 mV p-p, max.
Short circuit protection	Momentary
Line voltage regulation	+/- 1,2 % / 1,0 % of Vin
Load voltage regulation	+/- 8 %, load = 20 ~ 100 %
Temperature coefficient	+/- 0,02 % / °C

#### General Specifications

Efficiency	70 % to 85 %
Switching frequency	125 KHz, type.

#### Environmental Specifications

Operating temperature (ambient)	- 40° C to + 85° C
Storage temperature	- 55 °C to + 125 °C
Derating	See graph
Humidity	Up to 90 %, non condensing
Cooling	Free air convection

#### Physical Characteristics

Dimensions SIP	19,50 x 6,00 x 9,50 mm 0,76 x 0,24 x 0,37 inches
Weight	2 g, 3 g for the 48 VDC variants
Case material	Non conductive black plastic

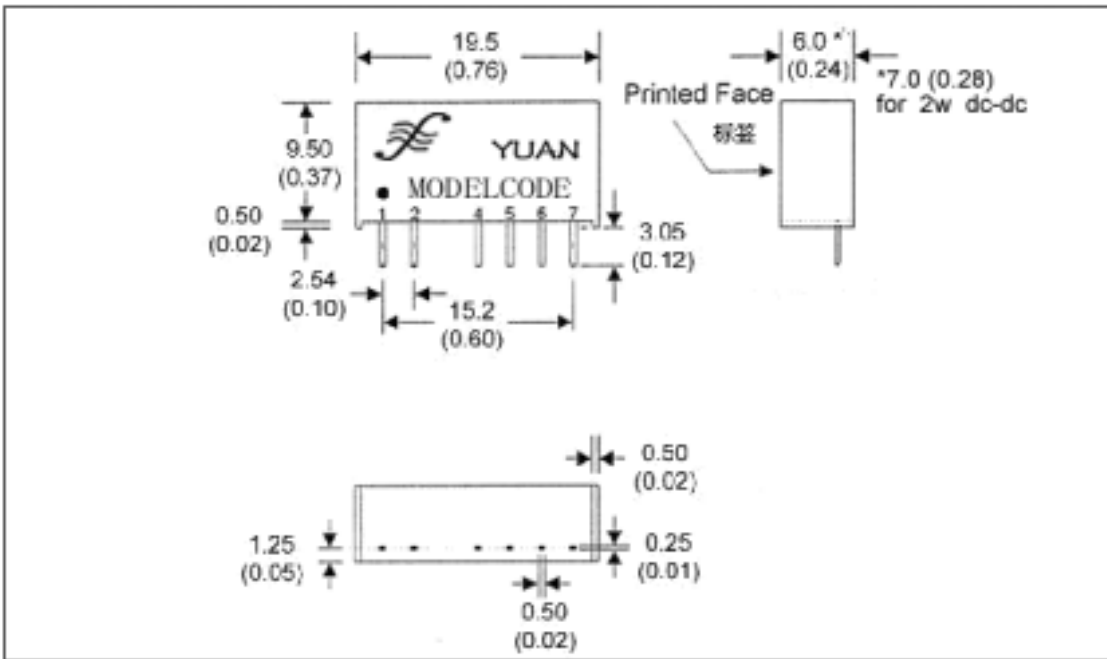
### Examples of Part Numbers

SUNYUAN PART NO	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYPE.)
B0503LS-1W	5	14	363	3.3	303	72
B0505LS-1W	5	16	266	5	200	75
B0512LS-1W	5	18	254	12	84	70
B1205LS-1W	12	11	119	5	200	70
B1212LS-1W	12	10	104	12	84	80
B1215LS-1W	12	15	107	15	68	78
B2405LS-1W	24	5	55	5	200	75
B2412LS-1W	24	7	54	12	84	77
B2415LS-1W	24	8	55	15	76	76

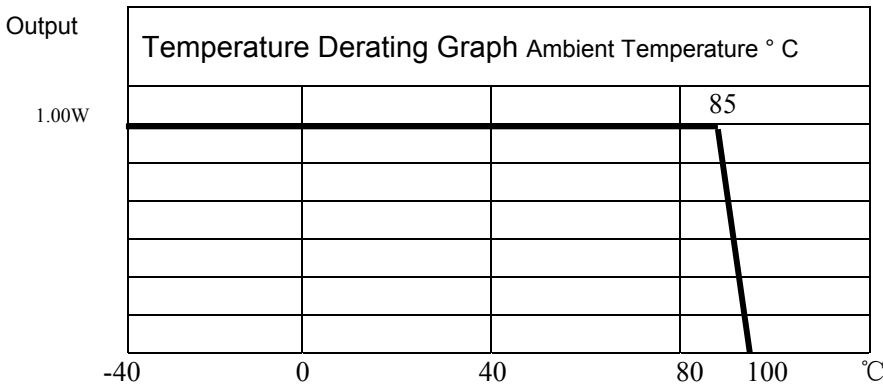
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## Dimensions



## Derating Graph and Pinning



Pin	Connection		
	1	+	V <sub>in</sub>
2	-	V <sub>in</sub>	Input
3			Omitted
4	-	V <sub>out</sub>	Output
5			Omitted
6	+	V <sub>out</sub>	Output
7			Omitted