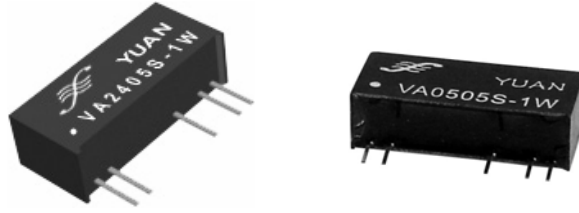


- **HIGH POWER DENSITY**
- **SIP PACKAGE**
- **DUAL OUTPUT VOLTAGE**
- **INDUSTRIAL STANDARD PIN-OUT**
- **NO HEAT SINK REQUIRED**
- **1K VDC ISOLATION**
- **REGULATED OUTPUT VOLTAGE**
- **PCB MOUNTING**



**RoHS COMPLIANT**

### ELECTRICAL SPECIFICATIONS:

(All specifications tested typically @ 25°C, humidity<75%, nominal input and rated output unless otherwise noted.)

### OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output accuracy	At full load and nominal Vin			±2%
Output power				1W
Line regulation	Input voltage from low to full load			+/- 0,5 %
Load regulation	From 20% to full load		+/- 0,5 %	
Ripple and noise	20MHz bandwidth			50mVp-p
Temperature drift				±0.02 %/°C
Minimum load				10%
Switching frequency			125K HZ	
Short circuit protection			>20s	

### INPUT SPECIFICATIONS

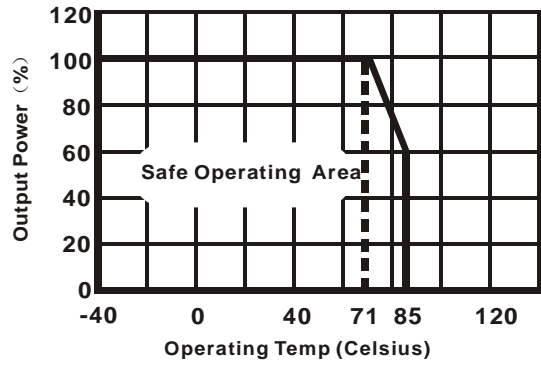
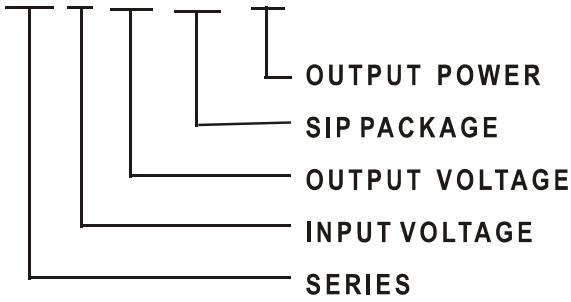
Items:	Testing condition	Min	Typ	Max
Input voltage range	5 VDC nominal input		4.5-5.5	
	12VDC nominal input		10.8-13.2	
	24VDC nominal input		21.6-26.4	

COMMON SPECIFICATIONS				
Items		Min	Typ.	Max
Operating temperature range		-40°C		+85°C
Storage temperature range		-55°C		+125°C
Humidity				<90%
Cooling	Free Air Convection			
Isolation voltage (VDC)	Input to Output		1,000	
Isolation resistance (ohms)			10 <sup>9</sup>	
Isolation capacitance (pF)				60
Efficiency (%)	See Product List	60		85
Case material	Non-conductive black plastic			
Potting material	Epoxy Resin UL94-V0			
Packing material	Tube			
Dimension (mm / inch)	27.50*8.80*11.00 (1.08*0.34*0.43)			
Weight (g)	10			
MTBF (Hrs)	>1,000,000			

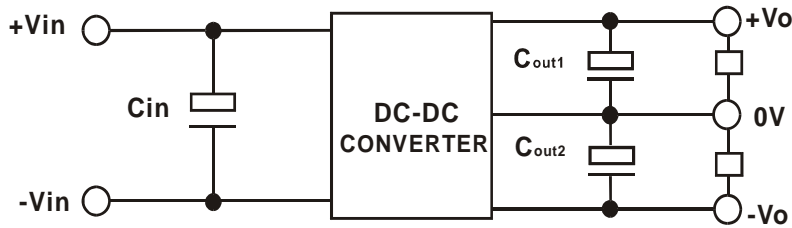
PRODUCT LIST							
Part Number	Input Voltage (VDC)			Output		Efficiency (%, Typ.)	Package
	Range	Nominal	Max.	Current (mA)	Voltage (VDC)		
VA0503S-1W	4.5-5.5	5	7.25	±100	±3.3	63	SIP
VA0505S-1W	4.5-5.5	5	7.25	±100	±5	66	SIP
VA0512S-1W	4.5-5.5	5	7.25	±42	±12	66	SIP
VA1205S-1W	10.8-13.2	12	16	±100	±5	68	SIP
VA1212S-1W	10.8-13.2	12	16	±42	±12	69	SIP
VA1209S-1W	10.8-13.2	24	16	±55	±9	68	SIP
VA2405S-1W	21.6-26.4	24	30	±100	±5	75	SIP
VA2409S-1W	21.6-26.4	24	30	±53	±9	72	SIP
VA2412S-1W	21.6-26.4	24	30	±42	±12	76	SIP

If you need the other type, otherwise noted.

www.DataSheet4U.com VA0505S-1W

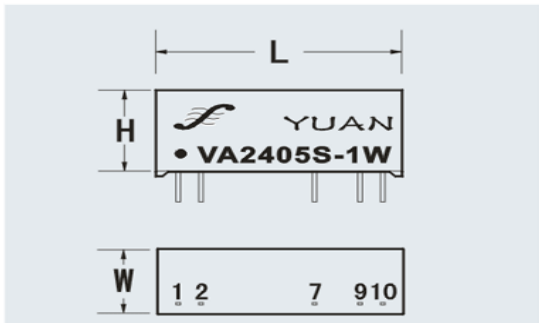


### TYPICAL CONNECTION



### OUTLINE DIMENSION

SIZE	SIP(LxWxH)	DIP(LxWxH)
1W 2W	27.4x8.8x11	—



PKG	V <sub>in</sub>	GND	-V <sub>o</sub>	0V	+V <sub>o</sub>
VAS	1	2	9	10	7

Note: NC Pin can't be connected to any external circuit.

### PINS DESCRIPTION

Pin	Connection	
1	+V <sub>in</sub>	Input
2	GND	Input
7	+V <sub>o</sub>	Output
10	0V	Common
9	-V <sub>o</sub>	Output

SHENZHEN SUNYUAN TECHNOLOGY CO., LTD.

3F, 3Bldg, Duoli Industrial Zone,

Meihua Rd. Futian District,

Shenzhen 518049, China

Tel: +86-755-83100080

Fax: +86-755-83116652

Email: sales02@szsunyu.com

www.szsunyu.com