

- HIGH POWER DENSITY
- 10PIN SIP PACKAGE
- DOUBLE OUTPUT
- INDUSTRIAL STANDARD PIN-OUT
- NO HEAT SINK REQUIRED
- 1K VDC ISOLATION
- FIXED INPUT VOLTAGE
- 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			20mVp-p
Temperature drift:				±0.02%/°C
Minimum load				10%
Switching frequency			80K HZ	
Short circuit protection		60s		

**INPUT SPECIFICATIONS**

Items:	Testing condition	Min	Typ	Max
Input voltage range	5 VDC nominal input		4.5-5.5	
	12VDC nominal input		11.8-13.2	
	24VDC nominal input		21.6-26.4	

**COMMON SPECIFICATIONS**

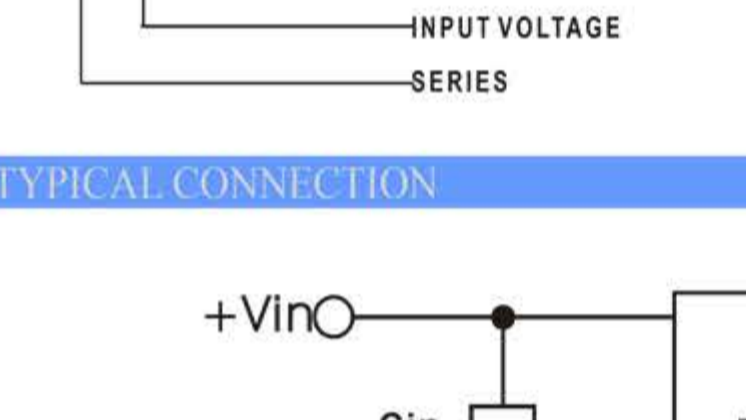
Items	Min	Typ.	Max
Operating temperature range	-40°C		+85°C
Storage temperature range	-55°C		+125°C
Humidity			<75%
Cooling	Free Air Convection		
Isolation voltage (VDC)	Input to Output	1,000	3000
Isolation resistance (ohms)		10 <sup>9</sup>	
Isolation capacitance (pF)			60
Efficiency (%)	See Product 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		

If you need other part No.,let us know.

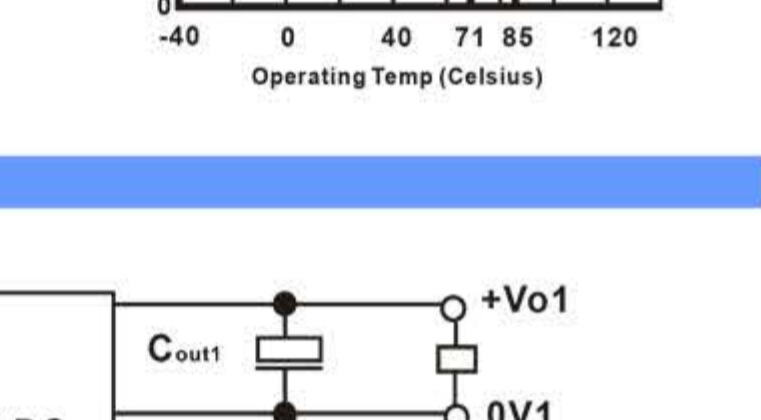
**PRODUCT LIST**

Part Number	Input Voltage (VDC)			Output		Efficiency (% , Typ.)	Package
	Range	Nominal	Max.	Current (mA)	Voltage (VDC)		
VD050303S-1W	4.5-5.5	5	7.25	100/100	3.3/3.3	63	SIP
VD050505S-1W	4.5-5.5	5	7.25	100/100	5/5	66	SIP
VD051212S-1W	4.5-5.5	5	7.25	42/42	12/12	66	SIP
VD120505S-1W	11.8-13.2	12	16.0	100/100	5/5	68	SIP
VD121212S-1W	11.8-13.2	12	16.0	42/42	12/12	69	SIP
VD120909S-1W	11.8-13.2	24	16.0	55/55	09/09	68	SIP
VD240505S-1W	21.6-26.4	24	30.0	100/100	12/12	75	SIP
VD240909S-1W	21.6-26.4	24	30.0	53/53	9/9	72	SIP
VD241212S-1W	21.6-26.4	24	30.0	42/42	5/5	76	SIP
VD050303S-1W	4.5-5.5	5	7.25	100/100	3.3/3.3	63	SIP
VD050505S-1W	4.5-5.5	5	7.25	100/100	5/5	66	SIP
VD051212S-1W	4.5-5.5	5	7.25	42/42	12/12	66	SIP
VD120505S-1W	11.8-13.2	24	16.0	100/100	5/5	68	SIP

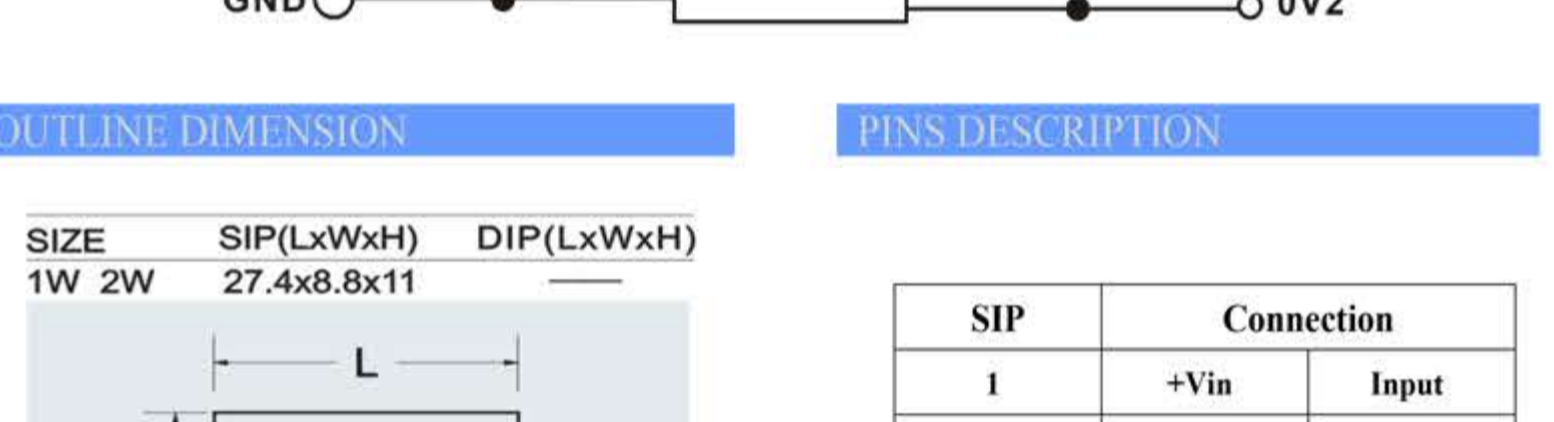
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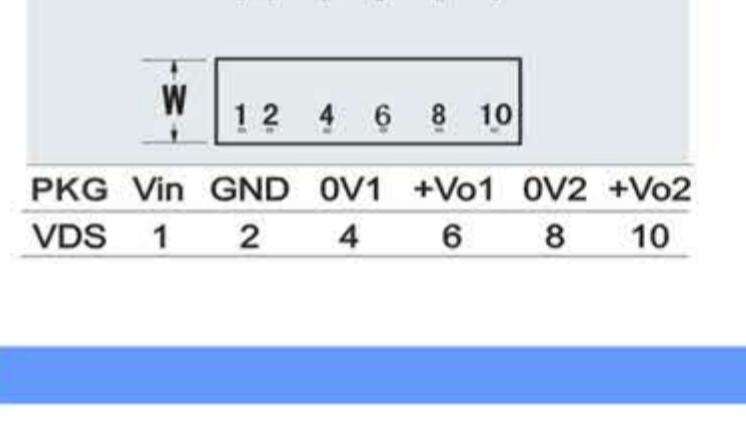
**TEMPERATURE DERATING GRAPH**



**TYPICAL CONNECTION**



**OUTLINE DIMENSION**



**PINS DESCRIPTION**

SIP	Connection
1	+Vin Input
2	GND Input
4	0V1 Output
6	+VO1 Output
8	0V2 Output
10	+VO2 Output

**SHENZHEN SUNYUAN TECHNOLOGY CO., LTD. VDXXXXXXS-2W DUAL DC-DC CONVERTER**

- HIGH POWER DENSITY
- 10Pin SIP PACKAGE STYLE
- DUAL OUTPUT VOLTAGE
- INDUSTRIAL STANDARD PIN-OUT
- NO HEAT SINK REQUIRED
- 1K VAC 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		0.2W		2W
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			20mVp-p
Temperature drift:				±0.02%/°C
Minimum load				10%
Switching frequency			80K HZ	
Short circuit protection		60s		

**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			<75%
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	78
Case material	Non-conductive black plastic		
Potting material	Epoxy Resin UL94-V0		
Packing material	Tube		
Dimension (mm / inch)	27.40*8.80*11.00 (1.08*0.34*0.43)		
Weight (g)	10		
MTBF (Hrs)	>1,000,000		

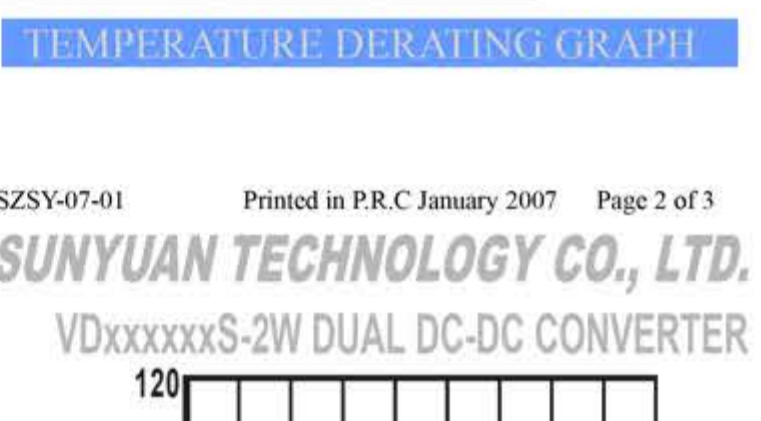
**PRODUCT LIST**

Part Number	Input Voltage (VDC)			Output		Efficiency (% , Typ.)	Package
	Range	Nominal	Max.	Current (mA)	Voltage (VDC)		
VD050303S-2W	4.5-5.5	5	7.25	303/303	3.3/3.3	63	SIP
VD050505S-2W	4.5-5.5	5	7.25	200/200	5/5	66	SIP
VD051212S-2W	4.5-5.5	5	7.25	84/84	12/12	66	SIP
VD120505S-2W	10.8-13.2	12	16.0	200/200	5/5	68	SIP
VD121212S-2W	10.8-13.2	12	16.0	84/84	12/12	69	SIP
VD120909S-2W	10.8-13.2	12	16.0	111/111	09/09	68	SIP
VD240505S-2W	21.6-26.4	24	30.0	200/200	12/12	75	SIP
VD240909S-2W	21.6-26.4	24	30.0	111/111	9/9	72	SIP
VD241212S-2W	21.6-26.4	24	30.0	84/84	5/5	76	SIP
VD050303S-2W	4.5-5.5	5	7.25	200/200	3.3/3.3	63	SIP
VD050505S-2W	4.5-5.5	5	7.25	200/200	5/5	66	SIP
VD051212S-2W	4.5-5.5	5	7.25	84/84	12/12	66	SIP
VD120505S-2W	10.8-13.2	12	16.0	200/200	5/5	68	SIP

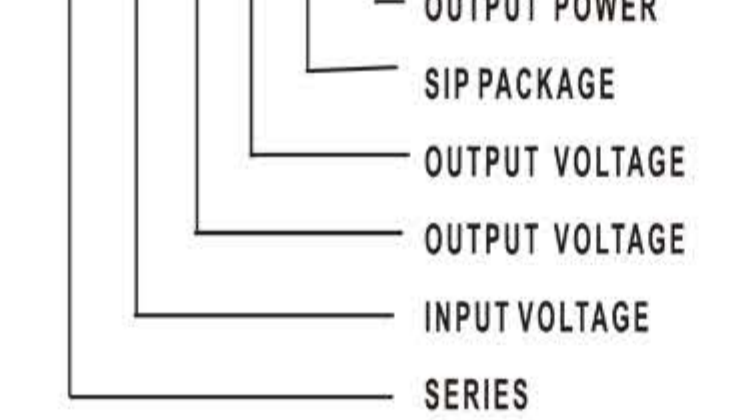
**NOMENCLATURE**



**TEMPERATURE DERATING GRAPH**



**OUTLINE DIMENSION**



**PINS DESCRIPTION**

SIP Pin	Connection
1	Vin Input
2	GND Input
4	0V1 OUTput
6	+VO1 OUTput
8	0V2 OUTput
10	+VO2 OUTput

**SHENZHEN SUNYUAN TECHNOLOGY CO., LTD. Futian District, Shenzhen, China**