

1000Vdc Isolation Twin Output 1 Watt Dc-Dc Converter

FEATURES:

- 14PIN DIL Package
- High Efficiency up to 85%
- Internal SMD Construction
- Unregulated Output Types
- Operating Temperature:-40°C TO +85°C
- No External Component Required Industry Standard Pinout

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified			
Part Number	Output2		Efficiency
	Voltage (VDC)	Current (mA)	%TYP
AS1N-XXDXX03J	3,3	150	70
AS1N-XXDXX05J	5	100	75
AS1N-XXDXX09J	9	56	75
AS1N-XXDXX12J	12	42	75
AS1N-XXDXX15J	15	34	75
AS1N-XXDXX24K	24	21	75

Note:1.“XX” Is Voltage:03=3.3Vdc,05=5Vdc,09=9Vdc 12=12Vdc,15=15Vdc,24=24Vdc.

2. 3.3V for output only, not for input.

3. The input voltage increases, there will be an increase in efficiency.

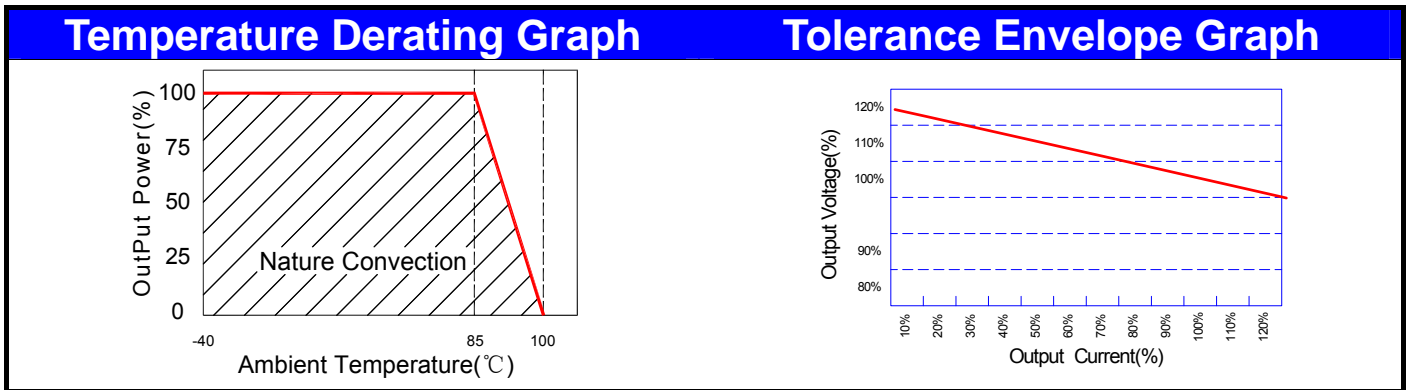
4. Over 24Vdc input voltage or Output voltage, using the K package

Input Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			±5	%
Filter	Capacitor				

Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1 Sec	
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	3.3V,5V (10% To 100% F.L)			15	%
Load Regulation	9V,12V,15V,24V (10% To 100% F.L.)			10	%
Ripple & Noise	BW=DC To 20MHZ			100	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	3500000			Hours
Weight			2.3 or 2.8		g
Dimensions J			20.32x10.16x6.80		mm
Dimensions K			20.32x10.16x7.70		mm

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Recommended Test Circuit	Part Number
<p> 5V :Cin 4.7uF,25V 3.3V :Cout 22uF,25V 9V :Cin 4.7uF,25V 5V :Cout 10uF,25V 12V :Cin 2.2uF,25V 9V :Cout 4.7uF,25V 15V :Cin 1uF,50V 12V :Cout 2.2uF,25V 24V :Cin 1uF,50V 15V :Cout 1uF,50V 24V :Cout 1uF,50V </p>	<p>AS1 N - 05 D 0505 J</p> <p>1 2 3 4 5 6</p> <p> 1:Series 2:Input Voltage tolerance 5% 3:Input Voltage 4: Dual separated Output 5:Output voltage 6:Case J 20.32x10.16x6.80 </p>

Markings and Dimensions	Packaging									
	<table border="1"> <thead> <tr> <th colspan="3">Size(mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>13.23</td> <td>12.30</td> <td>530</td> </tr> </tbody> </table>	Size(mm)			A	B	C	13.23	12.30	530
Size(mm)										
A	B	C								
13.23	12.30	530								
<p>Unit: mm Unless otherwise specified, all tolerances are ± 0.25</p>										

PIN Connection							
PIN	1	7	8	9	10	11	14
DUAL	-Vin	NC	-Vout2	+Vout2	-Vout1	+Vout1	+Vin