

6000Vdc Isolation Single 1Watt Dc-Dc Converter

FEATURES:

24PIN DIP Package

High Efficiency up to 85%

Unregulated Output Types

Internal SMD Construction

Industry Standard Pinout

Operating Temperature:-40°C To +85°C

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified			
Part Number	Output Voltage	Output Current	Efficiency
	Vdc	mA	%TYP
AS1-XXS05L6	5	200	70
AS1-XXS09L6	9	111	75
AS1-XXS12L6	12	84	78
AS1-XXS15L6	15	67	80
AS1-XXS24L6	24	42	82

Note:1."XX" Is Input Voltage:05=5Vdc,09=9Vdc,12=12Vdc,15=15Vdc.24=24Vdc.

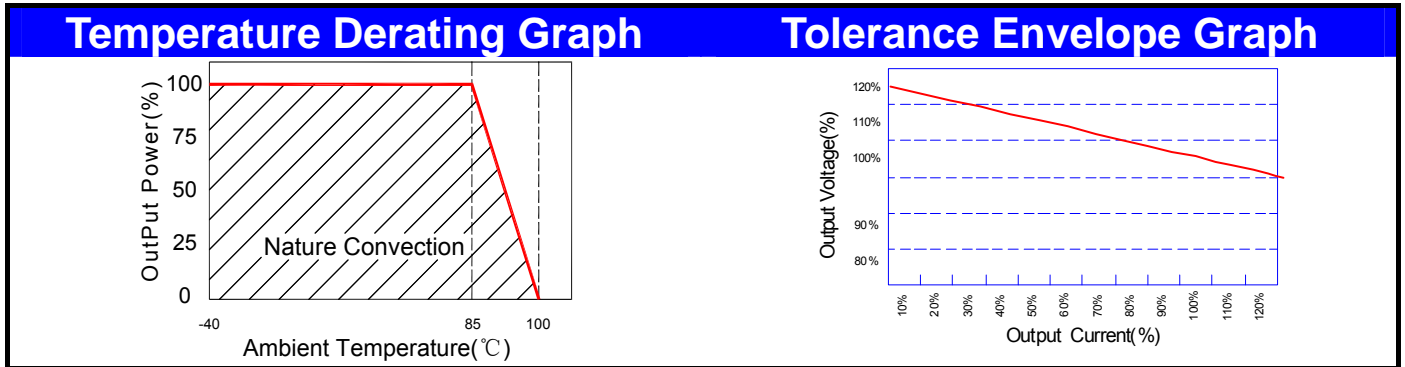
2. The input voltage increases, there will be an increase in efficiency

Input Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			±10	%
Filter	Capacitor				

Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1Sec	
Ripple & Noise	BW=DC To 20MHz			100	mVp-p
Line Regulation	For 1% of Vin		1.2		%
Load Regulation	5V (20% To 100% F.L)			15	%
Load Regulation	9V,12V,15V,24V (20% To 100% F.L)			10	%
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		50		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			9.5		g
Dimensions			33.02x14.73x10.41		mm

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Recommended Test Circuit	Part Number
<p> 5V :Cin 4.7uF,25V 5V :Cout 10uF,25V 9V :Cin 4.7uF,25V 9V :Cout 4.7uF,25V 12V :Cin 2.2uF,25V 12V :Cout 2.2uF,25V 15V :Cin 1uF,50V 15V :Cout 1uF,50V 24V :Cin 1uF,50V 24V :Cout 1uF,50V </p>	<p>AS1 - 05 S 05 L 6</p> <p>1 2 3 4 5 6</p> <p> 1:series 2:Input Voltage 3:Single Output 4:Output voltage 5:Case 6:6000Vdc Isolation </p>

Markings and dimensions	Packaging									
<p> 24 13 14.73 16.65 33.02MAX 1 12 0.5+0 0.5 2.54+0.10 27.94 2.54 MIN 0.25+0.05 0.41 10.41 </p>	<p>UNIT:mm</p> <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								

Unit:mm Unless otherwise specified,all tolerances are ±0.25

PIN Connection					
PIN	1	2	10,15	12,13	Other
Single	+Vin	-Vin	-Vout	+Vout	NC