



3000Vdc Isolation Single Output 3 Watt Dc-Dc Converter

FEATURES:

7PIN SIP Package

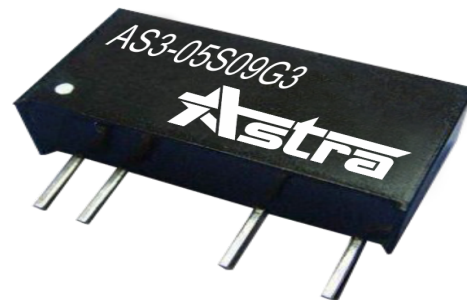
Typical efficiency from 83%

Unregulated Output Types

Internal SMD Construction

No External Component Required 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
AS3-05S05G3	5	600	82
AS3-05S09G3	9	333	85
AS3-05S12G3	12	250	82
AS3-05S15G3	15	200	85
AS3-12S05G3	5	600	82
AS3-12S09G3	9	333	85
AS3-12S12G3	12	250	86
AS3-12S15G3	15	200	87

Input Specifications

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

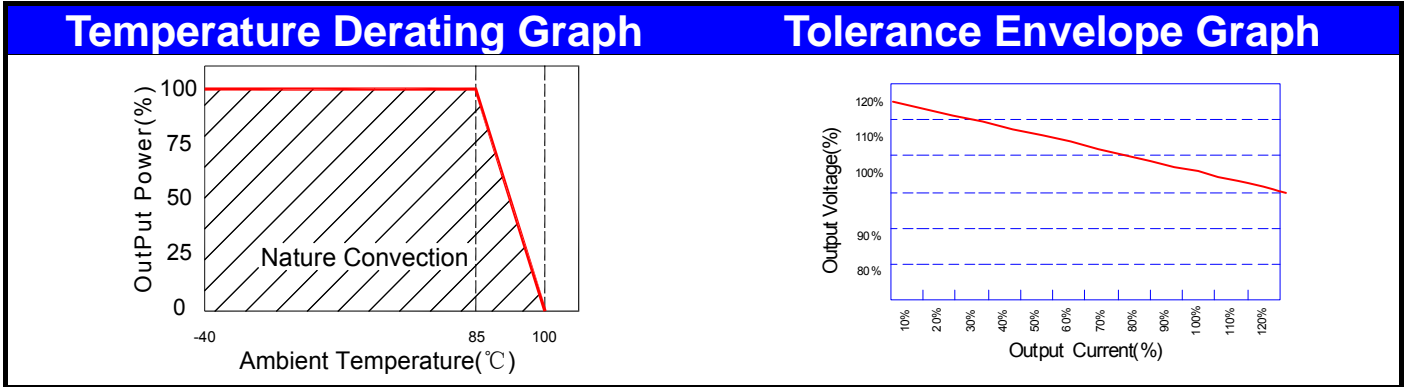
Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1 Sec	
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	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		60		KHz
Operation Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	3500000			Hours
Weight			2.7		g
Dimensions			19.5x7.1x10.0		mm

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Recommended Test Circuit	Part Number
<p> 5V :Cin 4.7uF,25V 5V :Cout 10uF,25V 12V:Cin 2.2uF,25V 9V :Cout 4.7uF,25V 12V:Cout 2.2uF,25V 15V:Cout 1uF,50V </p>	<p>AS3 - 05 S 05 G 3</p> <p>1 2 3 4 5 6</p> <p> 1:Series 2:Input Voltage 3:Single Output 4:Output Voltage 5:Case 6:3000Vdc Isolation </p>

Markings and dimensions	Packaging												
<p> printed face 1.25 2.00 15.24 0.25±0.05 </p> <p>UNIT:mm Unless otherwise specified,all tolerances are ±0.25</p>	<p>UNIT:mm</p> <table border="1"> <thead> <tr> <th colspan="4">Size(mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>9.50</td> <td>16.50</td> <td>5.22</td> <td>5.00</td> </tr> </tbody> </table>	Size(mm)				A	B	C	D	9.50	16.50	5.22	5.00
Size(mm)													
A	B	C	D										
9.50	16.50	5.22	5.00										

PIN Connection				
PIN	1	2	5	7
Single	+Vin	-Vin	-Vout	+Vout