

DC-DC Astra

AS10A-xxSxxRC

AS10A-xxDxxRC



FEATURES:

2:1 Wide Input Voltage.

10 Watt Package.

Efficiency To 80%

PI Input Filter.

1500Vdc Isolation MTBF:>1,500,000 hrs

Operating Temperature:-40°C TO +100°C

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

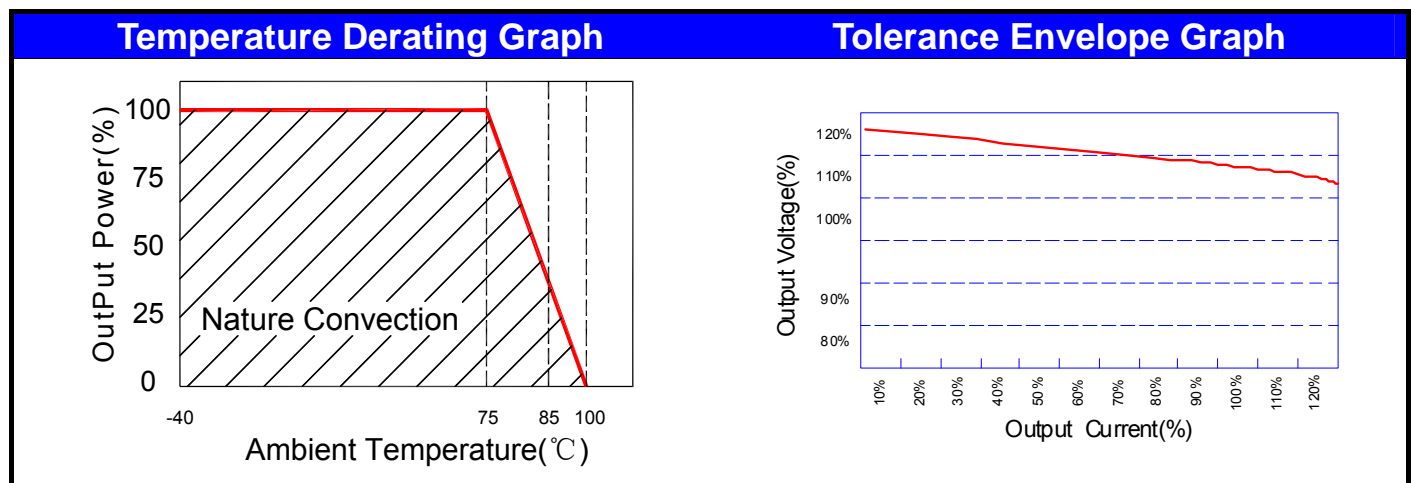
Part Number	Input Voltage	Input Current		Output Voltage	Output Current	Efficiency	Capacitor Load
	Vdc	No-Load (mA TYP)	Full Load (mA TYP)	Vdc	Full Load(mA)	%TYP	uF TYP
AS10A-12S03RC	9-18	30	705	3.3	2000	78	2200
AS10A-12S05RC	9-18	30	1016	5	2000	82	2200
AS10A-12S09RC	9-18	30	1004	9	1111	83	1000
AS10A-12S12RC	9-18	30	992	12	833	84	680
AS10A-12S15RC	9-18	30	992	15	666	84	470
AS10A-12S18RC	9-18	30	980	18	555	85	470
AS10A-12S24RC	9-18	30	980	24	416	85	330
AS10A-12D05RC	9-18	30	1016	±5	±1000	82	±1000
AS10A-12D09RC	9-18	30	992	±9	±555	84	±470
AS10A-12D12RC	9-18	30	992	±12	±416	84	±470
AS10A-12D15RC	9-18	30	980	±15	±333	85	±330
AS10A-12D18RC	9-18	30	980	±18	±277	85	±220
AS10A-12D24RC	9-18	30	980	±24	±208	85	±220
AS10A-24S03RC	18-36	25	352	3.3	2000	78	2200
AS10A-24S05RC	18-36	25	508	5	2000	82	2200
AS10A-24S09RC	18-36	25	496	9	1111	84	1000
AS10A-24S12RC	18-36	25	496	12	833	84	680
AS10A-24S15RC	18-36	25	490	15	666	85	470
AS10A-24S18RC	18-36	25	490	18	555	85	470
AS10A-24S24RC	18-36	25	484	24	416	86	330
AS10A-24D05RC	18-36	25	508	±5	±1000	82	±1000
AS10A-24D09RC	18-36	25	502	±9	±555	83	±470
AS10A-24D12RC	18-36	25	496	±12	±416	84	±470
AS10A-24D15RC	18-36	25	496	±15	±333	84	±330
AS10A-24D18RC	18-36	25	490	±18	±277	85	±220
AS10A-24D24RC	18-36	25	490	±24	±208	85	±220
AS10A-48S03RC	36-72	20	176	3.3	2000	78	2200
AS10A-48S05RC	36-72	20	251	5	2000	83	2200
AS10A-48S09RC	36-72	20	248	9	1111	84	1000
AS10A-48S12RC	36-72	20	248	12	833	84	680
AS10A-48S15RC	36-72	20	248	15	666	84	470
AS10A-48S18RC	36-72	20	245	18	555	85	470
AS10A-48S24RC	36-72	20	245	24	416	86	330
AS10A-48D05RC	36-72	20	254	±5	±1000	82	±1000
AS10A-48D09RC	36-72	20	248	±9	±555	84	±470
AS10A-48D12RC	36-72	20	245	±12	±416	85	±470
AS10A-48D15RC	36-72	20	245	±15	±333	85	±330
AS10A-48D18RC	36-72	20	242	±18	±277	86	±220
AS10A-48D24RC	36-72	20	242	±24	±208	86	±220

Wide Input Voltage Range 10 Watt Dc-Dc Converter

Input Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				2:1	
Filter	Pi TYPE				

Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±2	%
Short Circuit Protection	Continuous				
Line Regulation				±0.5	%
Load Regulation	SINGLE(25% to 100%)			±0.5	%
Load Regulation	DUAL			±2.0	%
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			300		KHz
Operating Temperature		-40		100	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Nickel Coated With Non-Conductive Base or Black Coated Copper With Non-Conductive Base				
Weight			36.5		g
Dimensions			50.8x25.4x10.2		mm
Potting Material			Epoxy (UL94V-0 rated)		
Radiated Emissions	EN55022		CLASS A		
	FCC 47 CFR Part 15 subpart A		CLASS A		



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Recommended Test Circuit	Part Number
<p style="font-size: small;">12V :Cin 100uF,25V 24V & 48V:Cin 10uF,100V</p>	<p style="text-align: right;">AS10 A - 05 S 05 R C 1 2 3 4 5 6 7</p> <p>1:Series 2:Working temperature -40 +100 3:Input Voltage 4:(S) Single (D) Dual Output 5:Output Voltage 6:Case 7:Short Circuit Protection Continuous</p>

Suggest adding input external filter(C1,C2,L)to meet conducted emissions(EN55022 class A)

Markings and dimensions	Packaging									
	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Size(mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>210.00</td> <td>210.00</td> <td>30.00</td> </tr> </tbody> </table>	Size(mm)			A	B	C	210.00	210.00	30.00
Size(mm)										
A	B	C								
210.00	210.00	30.00								

UNIT:mm XX.X±0.5 XX.XX±0.25

PIN Connection					
PIN	1	2	3	4	5
SINGLE	+Vin	-Vin	+Vout	NO PIN	-Vout
DUAL	+Vin	-Vin	+Vout	COM	-Vout