

AS5220R-X S



5Watt, Single Output, AC/DC Converter

AS5220R - X S 05
A B C D E

A:Series 5 Watt
B:Regulated
C:Package1,2,3
D:Single(S)
E:Output Voltage



FEATURES:

Universal Input 90~264VAC

High Efficiency Up To 82%

Protection: Short Circuit /Overload/Over Voltage

Internal Input Filter

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified					
Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max(Note)	(TYP %)
AS5220R-XS03	4.0	3.3	1200	100	72
AS5220R-XS05	5.0	5	1000	100	75
AS5220R-XS06	5.1	6	850	100	75
AS5220R-XS07	5.1	7	725	100	75
AS5220R-XS08	5.0	8	625	100	75
AS5220R-XS09	5.4	9	600	100	78
AS5220R-XS10	6.0	10	600	100	78
AS5220R-XS12	6.0	12	500	100	80
AS5220R-XS13	6.0	13	460	150	80
AS5220R-XS14	6.0	14	425	150	80
AS5220R-XS15	6.0	15	400	150	80
AS5220R-XS16	6.0	16	375	150	80
AS5220R-XS18	6.0	18	333	200	81
AS5220R-XS24	6.0	24	250	240	82
AS5220R-XS27	6.0	27	220	240	82
AS5220R-XS36	6.0	36	167	240	82
AS5220R-XS48	6.0	48	125	240	82

Notes: "X" Represent module version

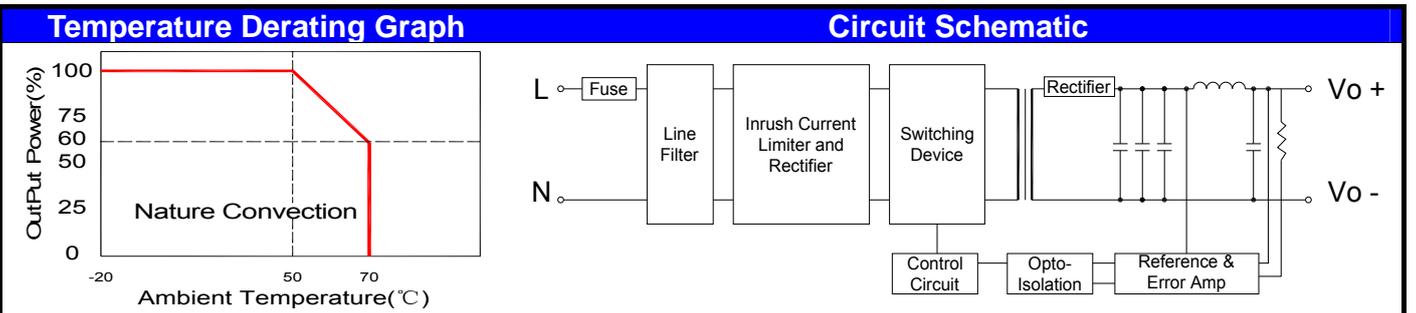
Input Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo,lo nom			100~240		Vac
Voltage Range	Vo,lo nom	AC in	90		264	Vac
		DC in	120		370	Vdc
Line frequency	Vi nom, Ionom		47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC			10	A
		Vi:230VAC			20	A
Input Current(Full load)	110mA Max.(115Vac) 70mA Max.(230Vac)					
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow).					

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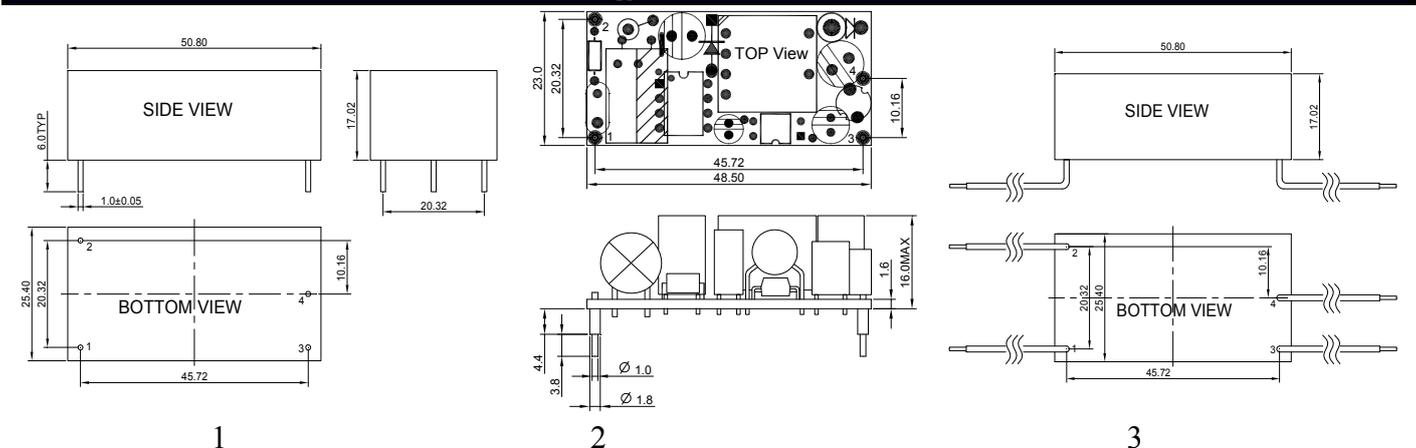
Output Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom	3.3V,5V Models			±3	%
		12...48V Models			±2	%
Minimum Load	Vi nom		0			%
Line Regulation	lo nom, Vi min... Vi max			±1		%
Load Regulation	Vi nom, lo min... lo nom			±2		%
Transient Recovery time	Vi nom, lo nom = \longleftrightarrow 0.5 lo nom			1,000		uS
Protection	Overload		Above 110% rated output power			
	Short circuit		Recovers automatically after fault condition is removed			
	Over Voltage		120%-150% rated output Voltage			
			Protection type: Zener diode clamp			

Note. Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

General Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom			65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc		100			MΩ
Operating Temperature	Operating at Vi nom, lo nom		-20		+70	°C
Derating	Vi nom, lo nom +51 to 71°C				2	%/°C
Storage Temperature	Non Operational		-40		+85	°C
Relative Humidity	Vi nom, lo nom				95	% RH
Dimension	AS5220R-1S/AS5220R-2S L50.80x W25.40 x H17.02mm, AS5220R-3S L48.5x W23.0 x H16.0mm					
Cooling	Free air convection					



Markings and dimensions



Unit: mm Unless otherwise specified, all tolerances are ±0.50

PIN Connection				
PIN	1	2	3	4
AS5220R-1S/AS5220R-2S	ACN	ACL	+Vo	-Vo
AS5220R-3S	ACN(Black)	ACL(White)	+Vo(Red)	-Vo(Blue)