

Features

- Efficiency up to 81%
- 3000VAC Isolation
- Single/Double output
- short circuit protection
- Universal Input :85 ~ 264VAC,50/60Hz
- Wide temperature -25 to 70
- Power modules for PCB Mounting design
- Plastic case



Model Selection Guide

Order Code	Input		Output		Recommend capacitive(uF)	Efficiency(%) (Typ)
	AC(V)	DC(V)	Vo(V)	Io(mA)		
AD15-S03	85-264	120-370	3.3	3000	1000	76
AD15-S05			5	3000	1000	76
AD15-S09			9	1667	470	80
AD15-S12			12	1250	470	81
AD15-S15			15	1000	470	81
AD15-S24			24	625	330	83
AD15-D05			±5	±1500	470/470	76
AD15-D12			±12	±625	220/220	80
AD15-D15			±15	±500	220/220	83
AD15-D05-05			5/5	2500/500	470/330	76
AD15-D05-12			5/12	2000/400	470/220	80
AD15-D05-24			5/24	2000/200	330/100	81

Input Characteristics

Parameter	Condition	Min	Typ	Max	Units
Input Voltage Range	AC	85	--	264	VAC
	DC	120	--	375	VDC
Input Frequency	AC	47	--	440	Hz

Output Characteristics

Parameter	Condition	Min	Typ	Max	Units
Output Voltage Accuracy		--	1%	--	%
Load regulation	10% ~ 100% load	--	±0.5	±1	%
Line regulation	Vin(Min~Max)	--	±0.5	±1	%
Ripple and noise	20MHz	--	50	100	mVp-p
Switching frequency	Full load,nominal input	--	60	--	KHz
Transient Recovery Time	25% Load Step Change	--	--	500	us
Hold-up time		--	50	--	ms
Short circuit Protection		Continuous, Automatic Recovery			

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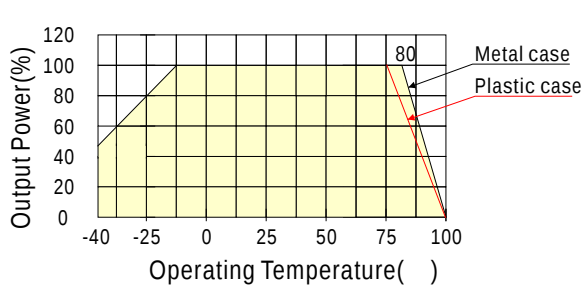
Page 1 of 3

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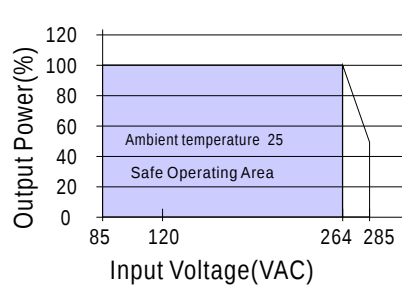
General Characteristics

Parameter	Condition	Min	Typ	Max	Units
Operating Temperature	Case	-25	--	+85	
Storage		-40	--	+105	
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	Input-Output 1mA ≤ 1minute	--	3000	--	VAC
Isolation resistance	500VDC	--	500	--	MΩ
MTBF	2 × 10 ⁵				K hours
Safety level	Single output	Class II			
	Others	Class I			
Case material		Platic			

Temperature Derating Graph Curve



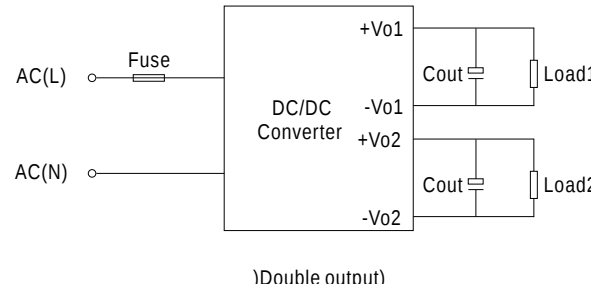
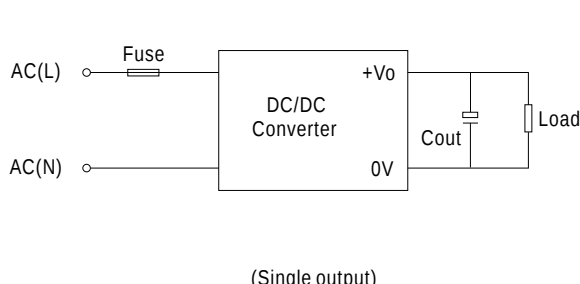
Input Voltage Derating Graph Curve



Note

- 1.All the specifications typical at Ta=+25 resistive load, nominal input voltage and rated output current unless otherwise noted.
- 2.Operation under no-load conditions will not damage these modules; however they may not meet all specifications listed.
- 3.Ripple & Noise measurement bandwidth is 0-20MHz.
- 3.Other input and output voltage may be available, please
- 4.All AC/DC converters should be externally fused at the front end for protection.
- 5.Specifications subject to change without notice

Application circuit

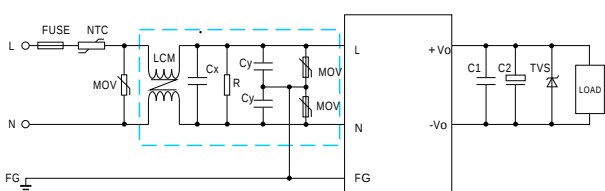


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Page 2 of 3

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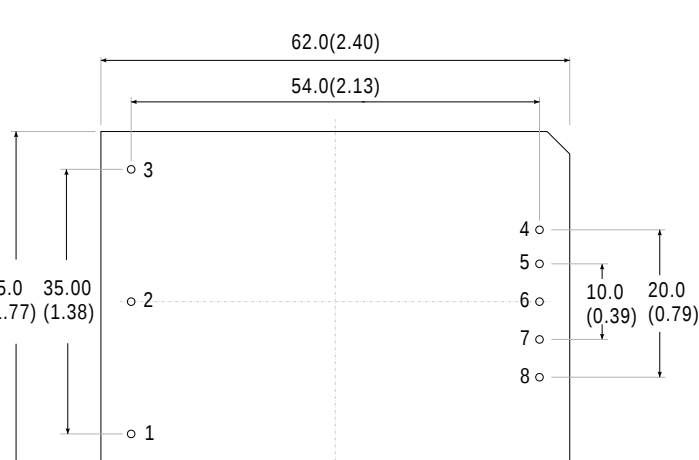
EMC recommended circuit



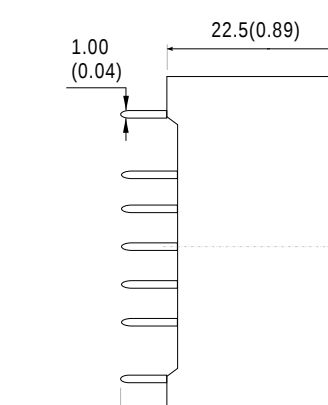
- 1 . FUSE : I=3*Vo*Io/效率 /Vin
Recommend : 2A/250V(10-30W)
- 2 .NTC: 10D-09
- 3 .MOV: 7D471K
- 4 .LCM: 5-20mH/0.5A
- 5 .Cx: 104/275VAC
- 6 .Cy: 102/400VAC
- 7 .C1: 104/50V
- 8 .C2: Reference value for capacitor
- 9 .TVS: P6KE20CA ,SMBJ20CA

Mechanical Dimension & Pin Connections

Bottom View



Lateral View



Note:

Unit:mm(inch)

Pin	1	2	3	4	5	6	7	8
Single	NC	N	L	+Vo	NP	NP	NP	-Vo
Dual	NC	N	N	+Vo	COM	COM	NP	-Vo
Dual Island	NC	N	L	+Vo2	-Vo2	NP	+Vo1	-Vo1

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Page 3 of 3

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