Features

- Efficiency up to 86%
- 3000VAC Isolation
- Single output
- Over load/short circuit protection
- Universal Input :85 ~ 305VAC,50/60Hz
- Wide temperature -25℃ to 70℃
- Power modules for PCB Mounting mesign
- Plastc case

Model Selection Guide

Order Code	Input		Output		Recommend capacitive(uF)	Efficiency(%) (Typ)
	AC(V)	DC(V)	Vo(V)	Io(mA)		
ADE10-S05	85-264	120-380	5	2000	470	75
ADE10-S12			12	833	120	80
ADE10-S15			15	667	120	81
ADE10-S24			24	417	100	83

Input Characteristics

Parameter	Condition	Min	Typ	Max	Units
Input Voltage Range	AC	85	--	264	VAC
	DC	120	--	380	VDC
Input Frequency	AC	47	--	440	Hz

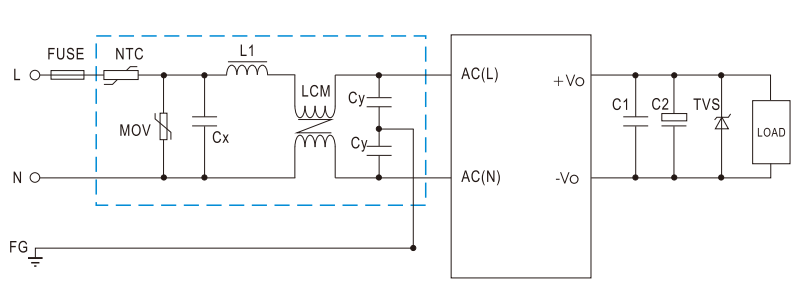
Output Characteristics

Parameter	Condition	Min	Typ	Max	Units
Output Voltage Accuracy		--	2	3%	%
Load regulation	10%～100% load	--	±1	--	%
Line regulation	Vin(Min~Max)	--	±0.5	±1	%
Ripple and noise	20MHz	--	50	100	mVp-p
Switching frequency	Full load,nominal input	--	100	--	KHz
Transient Recovery Time	25% Load Step Change	--	--	40	mS
Short circuit Protection		Continuous,Automatic Recovery			

General Characteristics

Parameter	Condition	Min	Typ	Max	Units
Operating Temperature	Case	-40	--	+70	℃
Storage		-40	--	+85	℃
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	Input-Output 5mA≤1minute	--	3000	--	VAC
Isolation resistance	500VDC	--	100	--	MΩ
MTBF	2×10^5				K hours
Case material		Platic			

EMC recommended circuit

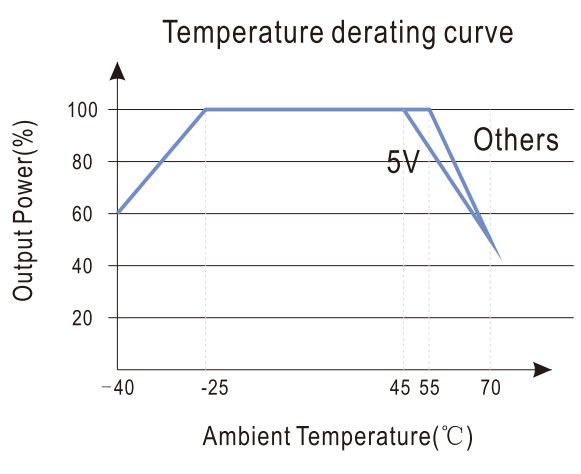


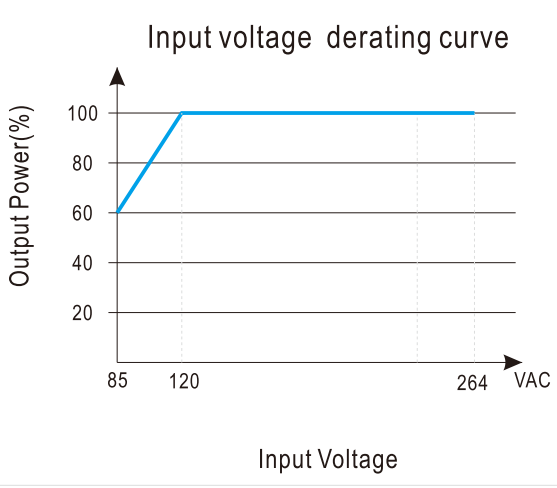
1. FUSE：I=3*Vo*Io/efficiency/Vin
   Recommend: 1A/250V
2. NTC: 10D-09
3. MOV: 14D471K
4. L1:1mH/0.5A
5. LCM: 20-30mH/0.5A
6. Cx: 104/275VAC
7. Cy: 102/400VAC
8. C1: 104/50V
9. C2: Reference value for capacitor
10. TVS: P6KE6.8A--P6KE30A

EMC

Burst of pulses（脉冲群）	IEC/EN 61000-4-4 4kV	
Surging（浪涌）	IEC/EN 61000-4-5 2kV	
Conducted disturbance（传导与辐射）	En55022 CLASS B	Reference application circuit
Electrostatic discharge（静电放电）	IEC/EN 61000-4-2 8kV	
RF Electromagnetic Field Immunity（射频辐射抗扰）	IEC/EN 61000-4-3	

Derating Graph Curve

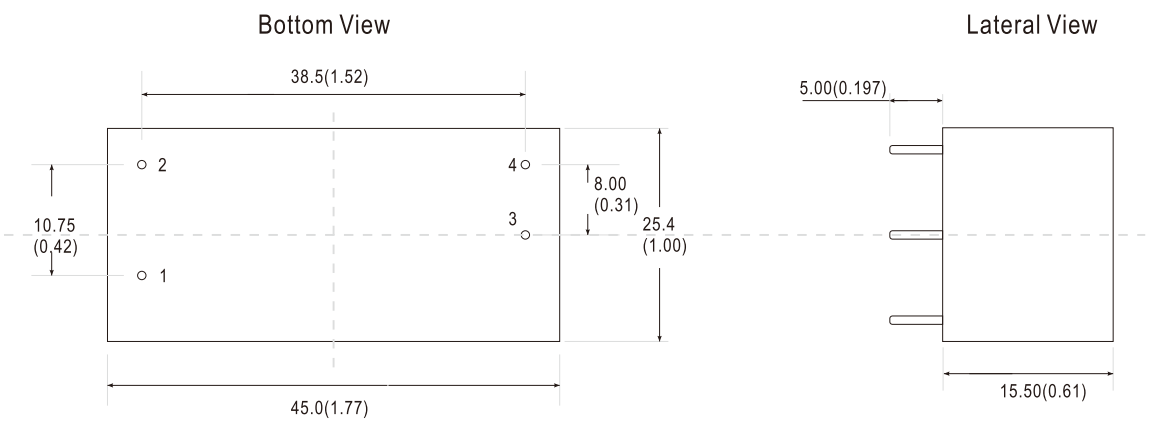




Note

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

Mechanical Dimension & Pin Connections



Note:
Unit:mm(inch)

Pin	1	2	3	4
Function	L	N	+Vo	-Vo