Features

- Efficiency up to 84%
- 3000VAC Isolation
- Single/Double output
- short circuit protection
- Universal Input :85 ~ 264VAC,50/60Hz
- Wide temperature -25℃ to 70℃
- Power modules for PCB Mounting mesign
- Plastic case

Model Selection Guide

Order Code	Input		Output		Recommend capacitive(uF)	Efficiency(%) (Typ)
	AC(V)	DC(V)	Vo(V)	Io(mA)		
AD25-S03	85-264	120-370	3.3	5000	2200	77
AD25-S05			5	5000	2200	82
AD25-S09			9	2778	680	83
AD25-S12			12	2083	680	84
AD25-S15			15	1667	680	84
AD25-S24			24	1042	470	85
AD25-D05			±5	±2500	22002200	82
AD25-D12			±12	±1042	680/680	83
AD25-D15			±15	±833	680/680	83
AD25-D05-05			5/5	4000/1000	2000/680	83
AD25-D05-12			5/12	4000/400	2000/680	83
AD25-D05-24			5/24	4000/200	2000/330	83

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

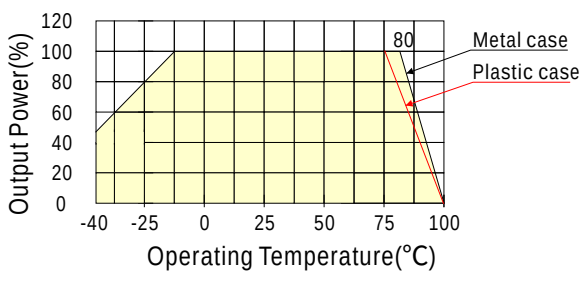
Output Characteristics

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			

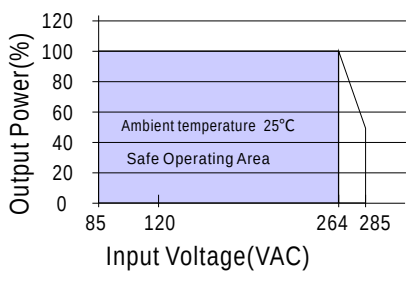
General Characteristics

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



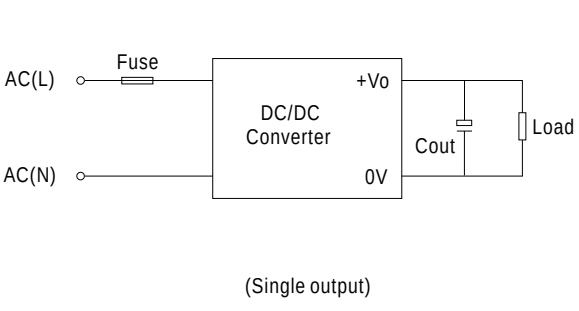
Input Voltage Derating Graph Curve



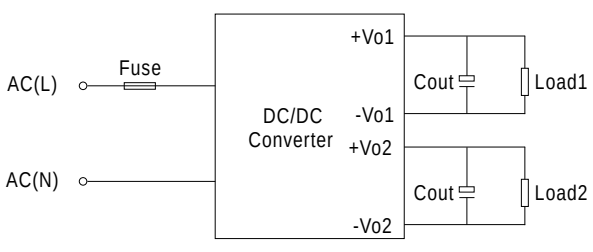
Note

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



(Single output)

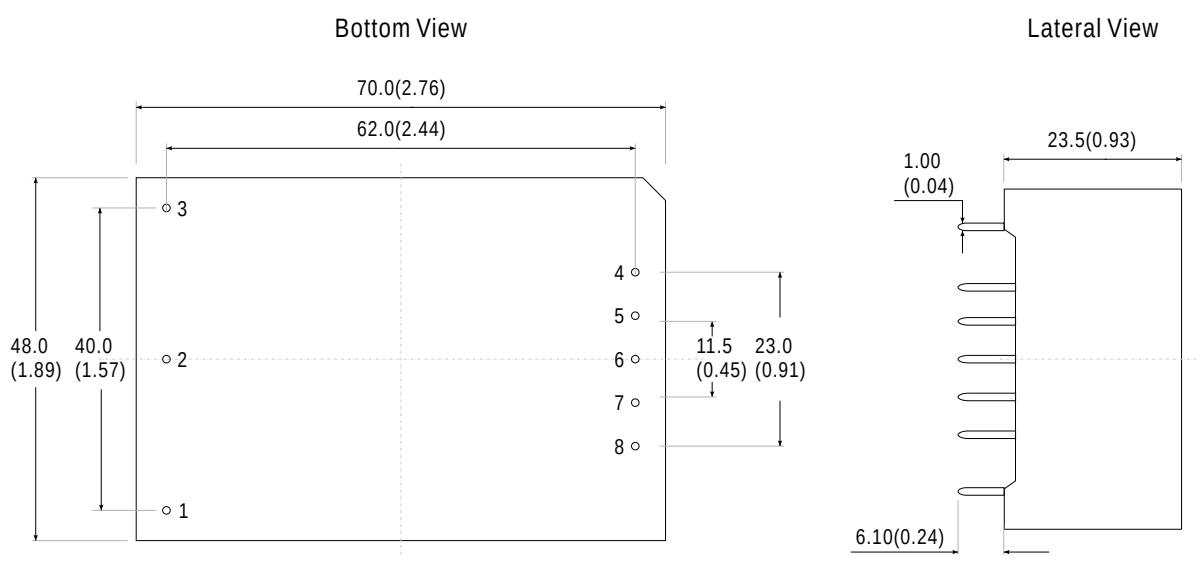


)Double output)

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



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	L	+Vo	NP	COM	NP	-Vo
Dual Island	NC	N	L	+Vo2	-Vo2	NP	+Vo1	-Vo1