

**Features**

- Efficiency up to 79%
- 3000VAC Isolation
- Single/Double output
- short circuit protection
- Universal Input :85 ~ 264VAC,47 ~ 440Hz
- Wide temperature -25 to 70
- Power modules for PCB mounting design
- Plastic case ("M" for Metal)



**Model Selection Guide**

Order Code	Input		Output		Recommend capacitive(uF)	Efficiency(%) (Typ)
	AC(V)	DC(V)	Vo(V)	Io(mA)		
ADN5-S03	85-264	120-370	3.3	1000	330	75
ADN5-S05			5	1000	330	75
ADN5-S09			9	556	220	78
ADN5-S12			12	417	220	78
ADN5-S15			15	333	220	80
ADN5-S24			24	208	100	81
ADN5-D05 *			±5	±500	220/220	75
ADN5-D12 *			±12	±208	100/100	78
ADN5-D15 *			±15	±167	100/100	79

Note : " \* "maked model is developing

**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

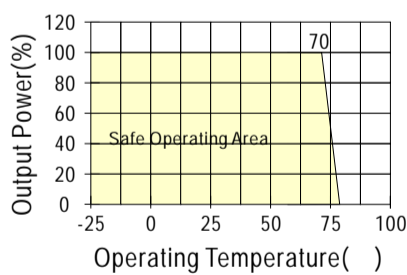
**Output Characteristics**

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	--	+70	
Storage		-40	--	+105	
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	Input-Output 1mA 1minute	Plastic	--	3000	VAC
		Metal	--	2500	VAC
Isolation resistance	500VDC	--	500	--	M
MTBF	2 × 10 <sup>5</sup>				K hours
Case material		Plastic("M" for Metal)			

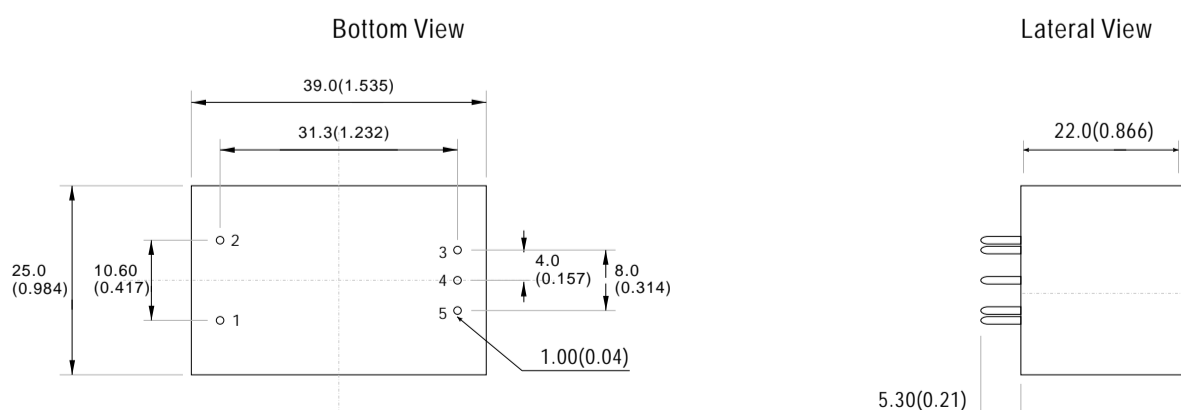
**Temperature Derating Graph Curve**



**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	5
Single	N	L	+Vo	NP	GND
Dual	N	L	+Vo	COM	-Vo