

### Features

- 2:1 Wide Input Range Voltage
- Regulated Output
- Single or Dual Output
- 1500VDC Isolation
- Potting Material : Epoxy(Flammability to UL94V-0)
- Pin Material : Brass, Solder Coated
- Remote On/Off Control
- Case Material: Nickel-Coated Copper with Non-Conductive Base
- Over Voltage Protection(clamp)
- Short Circuit Protection : Automatics recovery
- 1 year warranty



### Electrical Characteristics

Vin	Input Voltage for AMB30		9~18VDC
	Input Voltage for AMC30		18~36VDC
	Input Voltage for AMD30		36~75VDC
Fs	Switching Frequency		250kHz (typ.)
Po	Output Power Range		30W
Vo	Output Voltage Range		See rating chart
Io	Output Current Range		See rating chart
Acc	Output Voltage Accuracy	Io=Full load, Vin=Typ., at 25°C	±2.0% (typ.)
Eff	Efficiency	Io=Full load, Vin=Typ., at 25°C	77~85%
REG-i	Line Regulation	Io=Full load, Vin=Vmax to Vmin, at 25°C	±0.5% (max.)
REG-o	Load Regulation	Io=20% to 100%, Vin=Typ., at 25°C	Single Output ±0.5% (max.)
			Dual Output ±2.0% (max.)
OCP	Over Current Protection	Io=Full load, Vin=Typ., at 25°C	110~160%
Trp	Time of Transient Response	Load of 75% to 100%	280μS (max.)
Vp-p	Ripple & Noise(Peak to Peak)	Io=Full load, Vin=Typ., at 25°C	1% (typ.)
TC	Temperature Coefficient	All output	±0.05%/°C

**Note:** The Ripple & Noise which is 5VDC & 3.3VDC are 80mV(max).  
All specifications are measured at typical input, full load and 25°C unless otherwise noted.

### Environmental

To	Operating Temperature	With derating	-40~75°C
	Maximum Case Temperature		95°C (max.)
Ts	Storage Temperature		-55~115°C
Hr	Relative Humidity		0~95%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.5M Hrs (min.)
Cool	The Cooling Condition is Free		
Filter	Internal Capacitor		

### Safety Specification

Vio	Dielectric With Standing Voltage for input to output	Input to output	1500VDC (min.)
Vioc	Dielectric With Standing Voltage for input or output to case	Input or output to case	1500VDC (min.)
Ris	Isolation Resistance		1000M (min.)
EP	Potting Material is Epoxy which is flammability to UL94V-0		
CISPER	EMI requirements for CISPER-22	Io-Full load, Vin=Typ., At 25°C	A CLASS
FCC	EMI requirements for FCC PART-15	Io-Full load, Vin=Typ., At 25°C	A CLASS

**Note:** For meeting CISPER and FCC, some filters must be added. (Please refer Emissions Solution)

### Application:

- Automatic Control System
- Industry Control System
- Medical System
- Distributed Power Architectures

### Safety Approvals:

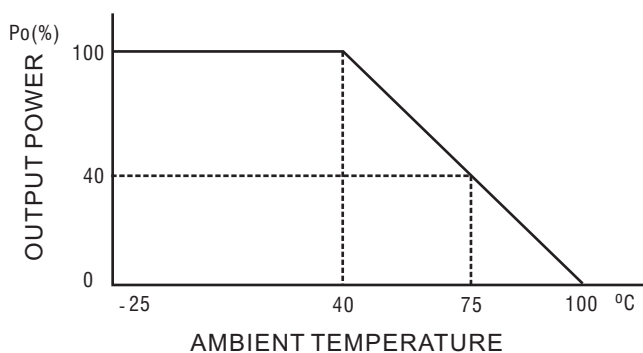


### Selection Chart :

Model Number	Input Voltage	Output Voltage	Output Current	Efficiency
AMB30-101	9~18VDC (Nominal:12V)	3.3VDC	6.00A	80%
AMB30-102		5VDC	5.00A	81%
AMB30-105		12VDC	2.50A	85%
AMB30-106		15VDC	2.00A	83%
AMB30-108		24VDC	1.25A	82%
AMB30-202		±5VDC	3.00A	81%
AMB30-205		±12VDC	1.25A	83%
AMB30-206		±15VDC	1.00A	83%
AMC30-101	18~36VDC (Nominal:24V)	3.3VDC	6.00A	80%
AMC30-102		5VDC	5.00A	80%
AMC30-105		12VDC	2.50A	84%
AMC30-106		15VDC	2.00A	85%
AMC30-108		24VDC	1.25A	83%
AMC30-202		±5VDC	3.00A	83%
AMC30-205		±12VDC	1.25A	85%
AMC30-206		±15VDC	1.00A	85%
AMD30-101	36~75VDC (Nominal:48V)	3.3VDC	5.40A	77%
AMD30-102		5VDC	5.00A	82%
AMD30-105		12VDC	2.50A	84%
AMD30-106		15VDC	2.00A	85%
AMD30-108		24VDC	1.25A	85%
AMD30-202		±5VDC	3.00A	77%
AMD30-205		±12VDC	1.25A	81%
AMD30-206		±15VDC	1.00A	82%

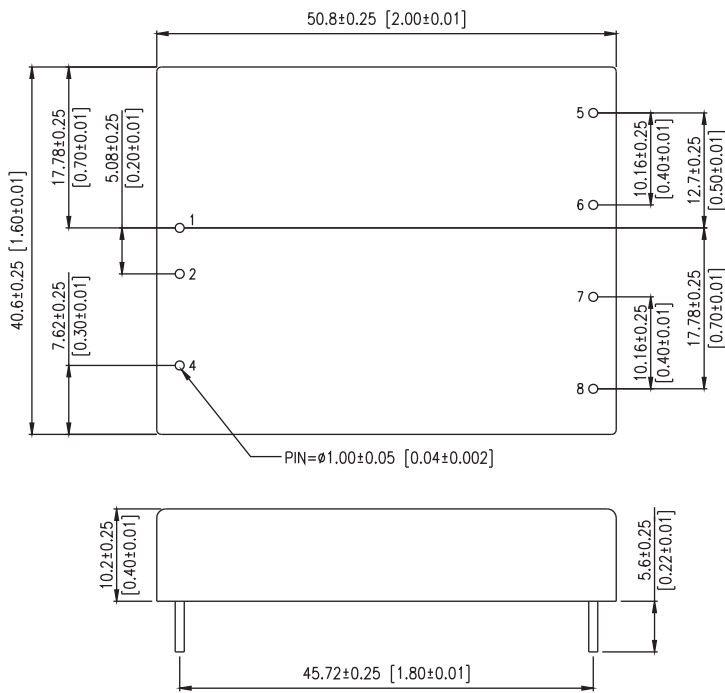
\* The typical efficiency is measured at nominal input, 25°C and at the module terminals.

### Derating Curve :



Note: At nominal input, Full load and cooling is natural convection.

### Mechanical Specifications :



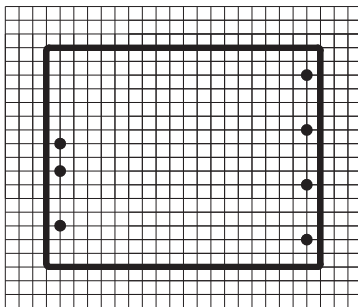
### Pin Connections :

Pin	Single	Dual
1	+Vin	+Vin
2	- Vin	- Vin
4	Remote control On / Off Control	
5	No Pin	+Vout
6	+Vout	Common
7	-Vout	-Vout
8	Trim	Trim

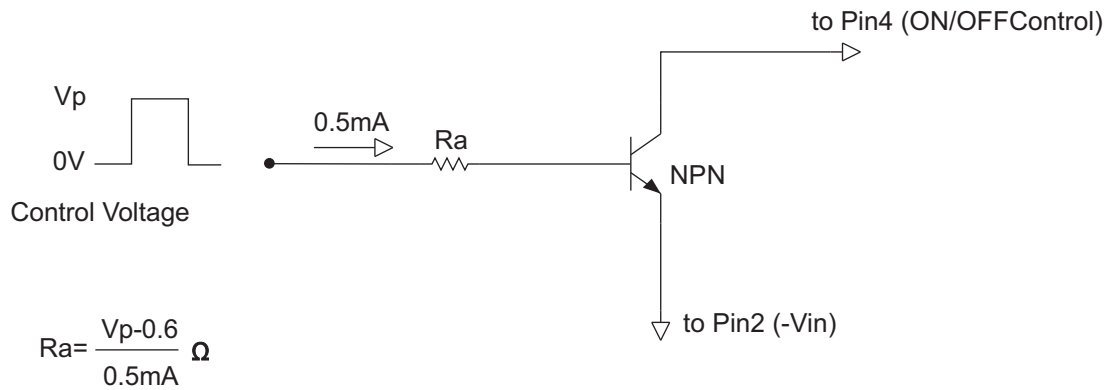
#### Note:

1. Dimensions are shown in mm.
2. Weight: 50gs.

#### Recommended Pin Patterns Bottom View (2.54mm / 0.1inch grids)

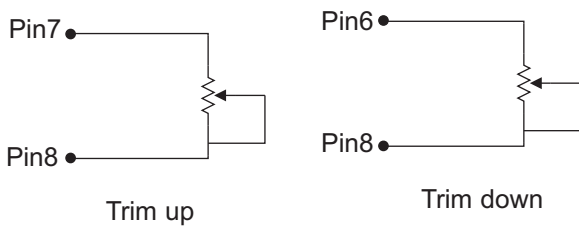


Tolerance	Millimeters	Inches
	$X \pm 0.25$	$.XX \pm 0.01$
	$XX.XX \pm 0.25$	$.XXX \pm 0.01$
Pin	$\pm 0.05$	$\pm 0.002$

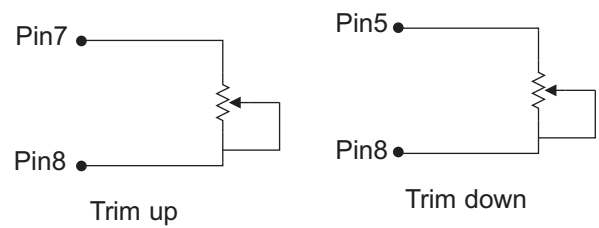


Note : The control voltage is referenced to negative input (-Vin)

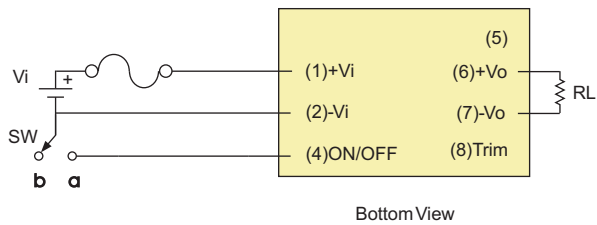
Single



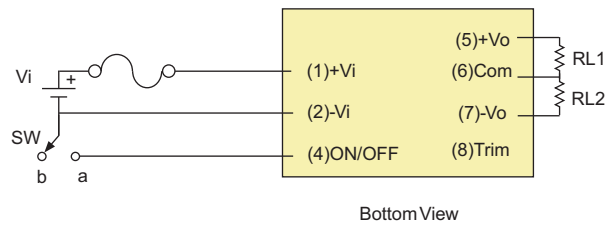
Dual



Single



Dual



### Emissions Solution : Conducted / ESD / RS / EFT / SURGE / CS / PFMF

