

Features

- 2:1 & 4:1 Wide Input Range Voltage
- Regulated Output
- Single or Dual Output
- 1500VDC Isolation
- Potting Material : Epoxy(Flammability to UL94V-0)
- Pin Material : Brass, Solder Coated
- 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 AMB10		9~18VDC	
	Input Voltage for AMC10		18~36VDC	
	Input Voltage for AMD10		36~75VDC	
	Input Voltage for AMF10		9~36VDC	
	Input Voltage for AMG10		18~75VDC	
Fs	Switching Frequency		300kHz (typ.)	
Po	Output Power Range		10W	
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	70~83%	
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%	300μS (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	Without 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		1M 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:

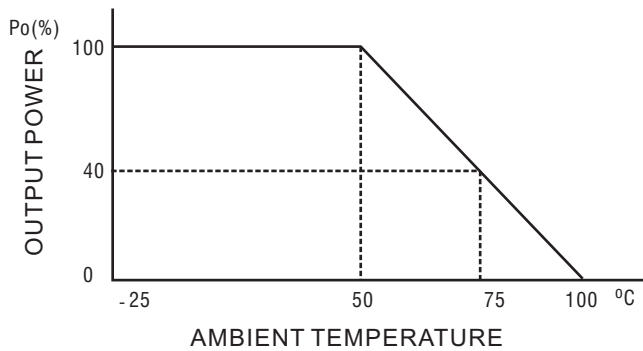


Selection Chart :

Model Number	Output Voltage	Output Voltage	Output Current	Efficiency
AMB10-101	9~18VDC (Nominal:12V)	3.3VDC	2.00A	75%
AMB10-102		5VDC	2.00A	83%
AMB10-105		12VDC	0.83A	81%
AMB10-106		15VDC	0.66A	83%
AMB10-202		±5VDC	1.00A	73%
AMB10-205		±12VDC	0.41A	75%
AMB10-206		±15VDC	0.33A	75%
AMC10-101	18~36VDC (Nominal:24V)	3.3VDC	2.00A	83%
AMC10-102		5VDC	2.00A	83%
AMC10-105		12VDC	0.83A	82%
AMC10-106		15VDC	0.66A	83%
AMC10-202		±5VDC	1.00A	75%
AMC10-205		±12VDC	0.41A	77%
AMC10-206		±15VDC	0.33A	77%
AMD10-101	36~75VDC (Nominal:48V)	3.3VDC	2.00A	83%
AMD10-102		5VDC	2.00A	83%
AMD10-105		12VDC	0.83A	82%
AMD10-106		15VDC	0.66A	83%
AMD10-202		±5VDC	1.00A	75%
AMD10-205		±12VDC	0.41A	77%
AMD10-206		±15VDC	0.33A	77%
AMF10-101	9~36VDC (Nominal:24V)	3.3VDC	2.00A	80%
AMF10-102		5VDC	2.00A	80%
AMF10-105		12VDC	0.83A	80%
AMF10-106		15VDC	0.66A	80%
AMF10-202		±5VDC	1.00A	75%
AMF10-205		±12VDC	0.41A	75%
AMF10-206		±15VDC	0.33A	75%
AMG10-101	18~75VDC (Nominal:48V)	3.3VDC	2.00A	80%
AMG10-102		5VDC	2.00A	81%
AMG10-105		12VDC	0.83A	81%
AMG10-106		15VDC	0.66A	81%
AMG10-202		±5VDC	1.00A	75%
AMG10-205		±12VDC	0.41A	75%
AMG10-206		±15VDC	0.33A	75%

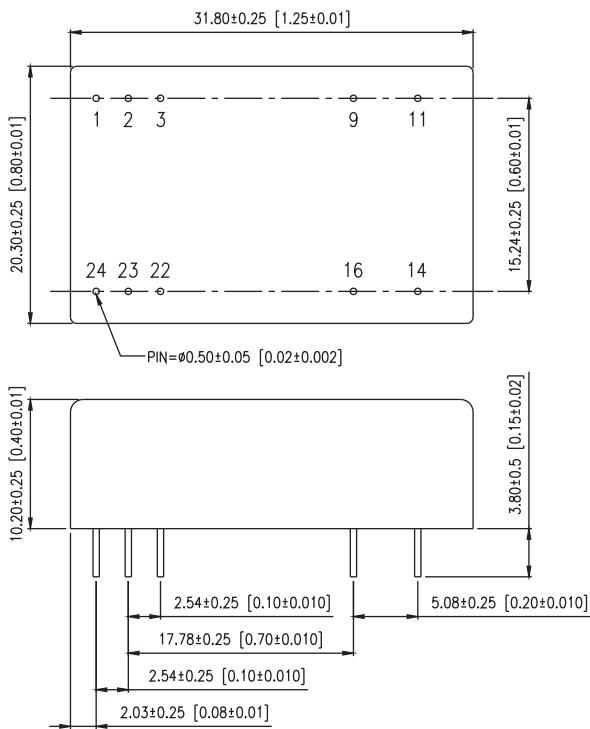
* The typical efficiency is measured at nominal input, 25°C and at the module terminals.

Derating Curve :

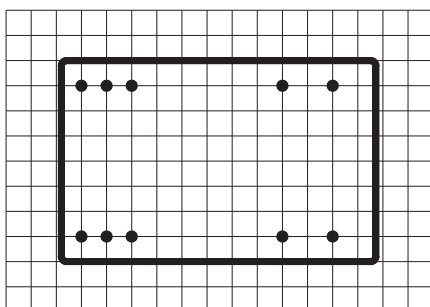


Note: At nominal input, Full load and cooling is natural convection.

Mechanical Specifications :



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



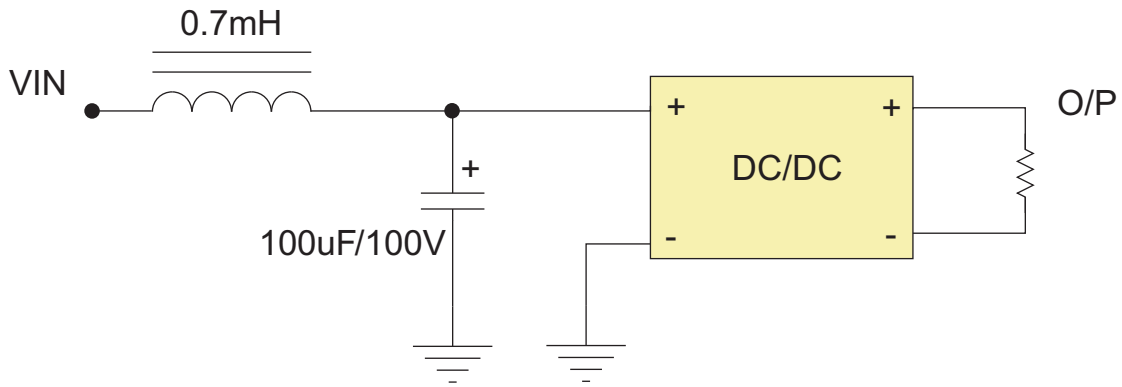
Pin Connections :

Pin	Single	Dual
22 & 23	+Vin	+Vin
2 & 3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common
24	NC	NC
1	Remote control on/off	

Note:
1. Dimensions are shown in mm.
2. Weight: 18gs.

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

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



Note: This graph meet EN 55022:2006+A1:2007 Class A