

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
- 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 AMB20	9~18VDC	
	Input Voltage for AMC20	18~36VDC	
	Input Voltage for AMD20	36~75VDC	
	Input Voltage for AMF20	9~36VDC	
	Input Voltage for AMG20	18~75VDC	
Fs	Switching Frequency	200kHz (typ.)	
Po	Output Power Range	20W	
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	74~85%
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	110~150%
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		0.6M 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:

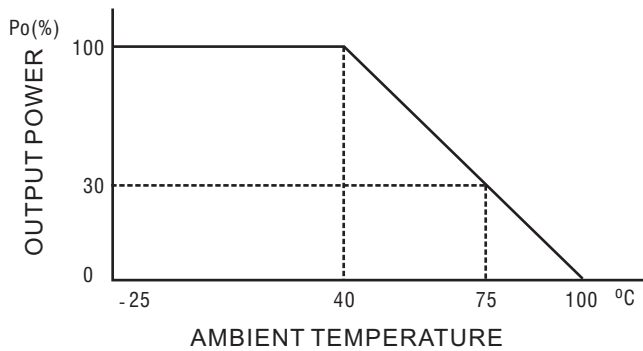


Selection Chart :

Model Number	Output Voltage	Output Voltage	Output Current	Efficiency
AMB20-101	9~18VDC (Nominal:12V)	3.3VDC	5.00A	79%
AMB20-102		5VDC	4.00A	78%
AMB20-105		12VDC	1.65A	82%
AMB20-106		15VDC	1.33A	83%
AMB20-202		±5VDC	2.00A	78%
AMB20-205		±12VDC	0.82A	82%
AMB20-206		±15VDC	0.66A	81%
AMC20-101	18~36VDC (Nominal:24V)	3.3VDC	5.00A	75%
AMC20-102		5VDC	4.00A	77%
AMC20-105		12VDC	1.65A	84%
AMC20-106		15VDC	1.33A	83%
AMC20-202		±5VDC	2.00A	80%
AMC20-205		±12VDC	0.82A	82%
AMC20-206		±15VDC	0.66A	84%
AMD20-101	36~75VDC (Nominal:48V)	3.3VDC	5.00A	75%
AMD20-102		5VDC	4.00A	76%
AMD20-105		12VDC	1.65A	85%
AMD20-106		15VDC	1.33A	85%
AMD20-202		±5VDC	2.00A	76%
AMD20-205		±12VDC	0.82A	83%
AMD20-206		±15VDC	0.66A	85%
AMF20-101	9~36VDC (Nominal:24V)	3.3VDC	5.00A	74%
AMF20-102		5VDC	4.00A	78%
AMF20-105		12VDC	1.65A	80%
AMF20-106		15VDC	1.33A	83%
AMF20-202		±5VDC	2.00A	79%
AMF20-205		±12VDC	0.82A	83%
AMF20-206		±15VDC	0.66A	83%
AMG20-101	18~75VDC (Nominal:48V)	3.3VDC	5.00A	76%
AMG20-102		5VDC	4.00A	75%
AMG20-105		12VDC	1.65A	79%
AMG20-106		15VDC	1.33A	83%
AMG20-202		±5VDC	2.00A	79%
AMG20-205		±12VDC	0.82A	83%
AMG20-206		±15VDC	0.66A	83%

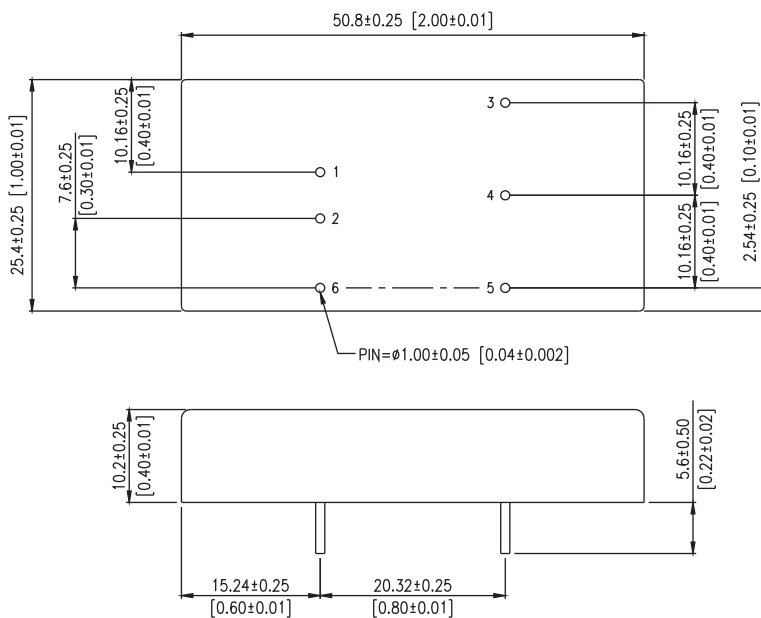
* The typical efficiency is measured at nominal input, 25°C and at the module terminals.

Derating Curve :



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

Mechanical Specifications :

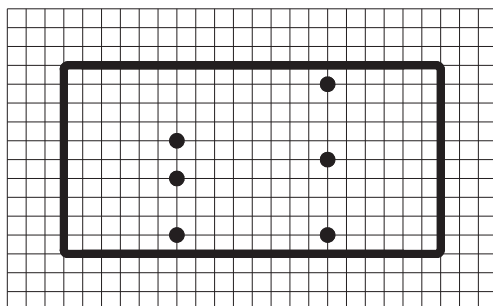


Pin Connections :

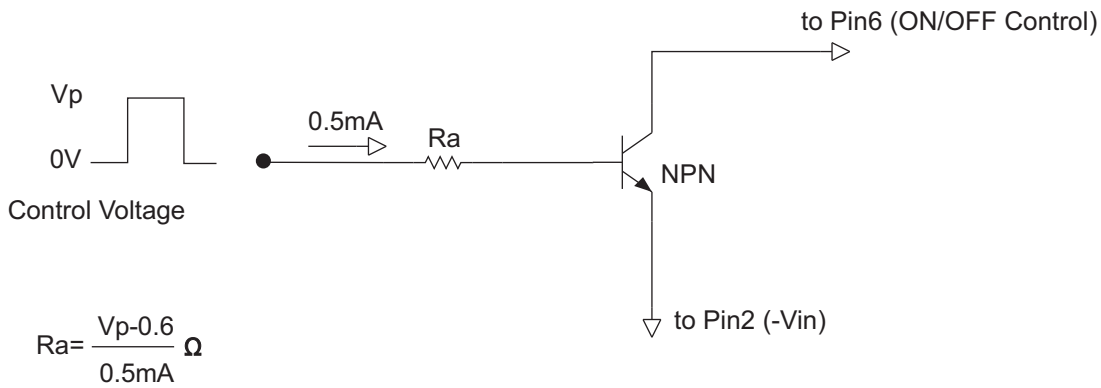
Pin	Single	Dual
1	+Vin	+Vin
2	- Vin	- Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout
6	Remote control On / Off Control	

Note:
 1. Dimensions are shown in mm.
 2. Weight: 33gs.

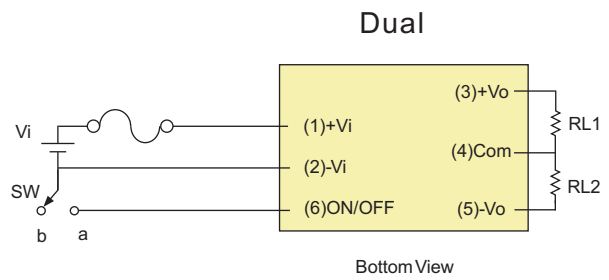
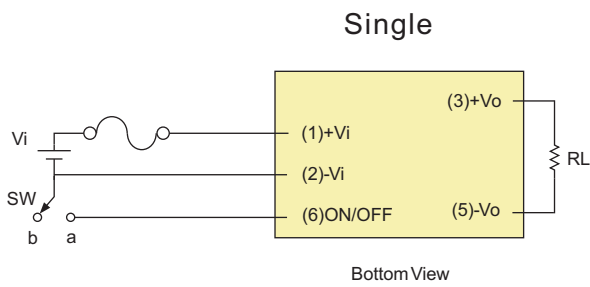
Recommended Pin Patterns
 Bottom View (2.54mm / 0.1inch grids)



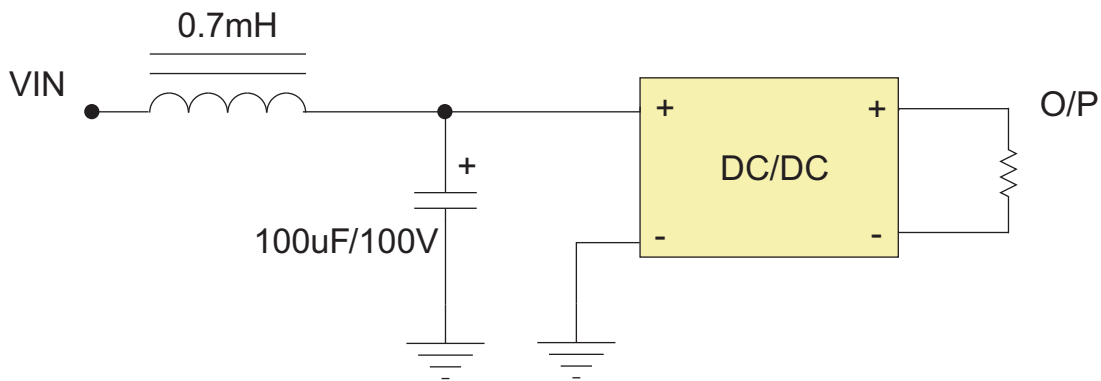
Tolerance	Millimeters	Inches
	X ±0.25	.XX ±0.01
	XX.XX ±0.25	.XXX ±0.01
Pin	±0.05	±0.002



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



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



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