Features

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



Electrical Characteristics:

	Input Voltage for AMB75		9~18VDC
V	in Input Voltage for AMC75		18~36VDC
	Input Voltage for AMD75		36~72VDC
F	Switching Frequency		230kHz (typ.)
Р	o Output Power Range		75W
V	Output Voltage Range		See rating chart
10	Output Current Range		See rating chart
A	Output Voltage Accuracy	lo=Full load, Vin=Typ., at 25°C	2.0% (max.)
E	ff Efficiency	lo=Full load, Vin=Typ., at 25°C	88~91%
RE	G-i Line Regulation	lo=Full load, Vin=max to min, at 25°C	0.5% (max.)
RE	G-o Load Regulation	Io=10% to 100%, Vin=Typ., at 25°C	0.5% (max.)
Vp	p-p Ripple & Noise (Peak to Peak)	20MHz	1.0% (max.)
V	io Isolation Voltage	Input to Output	1500VDC (min.)
R	is Isolation Resistance	Input to Output	1000MΩ (min.)
С	is Isolation Capacitance	Input to Output	1000pF (max.)
Т	C Temperature Coefficient	All output	0.02%/°C (max.)
В	Balance Regulation	lo=Full load, Vin=Typ.	2.0% (max.)
Tr	p Time of Transient Response	Vin=Typ., 25% load step change	500μS (max.)
Т	Start Up Time	Vin=Typ., lo=Full load	0.1~2S
00	Over Current Protection	Vin=min to max	110~150%lo

Environmental

То	Operating Temperature	With derating	-40~75°C	
Tcase	Maximum Case Temperature		100°C (max.)	
Ts	Storage Temperature		-55~105°C	
Hr	Relative Humidity		0~95%	
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		1M Hrs (typ.)	
Cool	The Cooling Condition is Free			
Filter	Pi-Network			

Application:

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

Safety Approvals: RoHS 2002/85/EC



AMX75 series

External Functions Specifications:

Remote Control Function Enable High						
Sym.	Parameter	Test Conditions	Min.	Тур. Мах.	Unit	
64	d System Disable	V-Remote	-0.5	0.8	V	
Sd		I-Remote		-600	μ A	
	e System Enable	V-Remote	2.5	Vin-max	V	
Se		I-Remote		-500	μ A	
		Floating Remote ON/OFF Pin				

Note: Control Voltage Reference to Negative Input

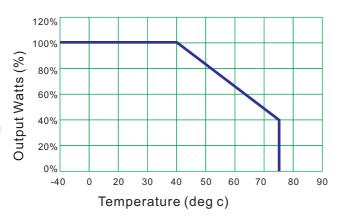
Output Voltage And Current Rating Chart:

Model Number	Intput Voltage	Output Voltage	Output Current	Efficiency
AMB75-102	9~18VDC (Nominal:12V)	5VDC	15.00A	88%
AMB75-105		12VDC	6.25A	89%
AMB75-106		15VDC	5.00A	89%
AMB75-108		24VDC	3.12A	89%
AMC75-102	18~36VDC (Nominal:24V)	5VDC	15.00A	90%
AMC75-105		12VDC	6.25A	91%
AMC75-106		15VDC	5.00A	91%
AMC75-108		24VDC	3.12A	91%
AMD75-102	36~72VDC (Nominal:48V)	5VDC	15.00A	90%
AMD75-105		12VDC	6.25A	91%
AMD75-106		15VDC	5.00A	91%
AMD75-108		24VDC	3.12A	91%

Note:

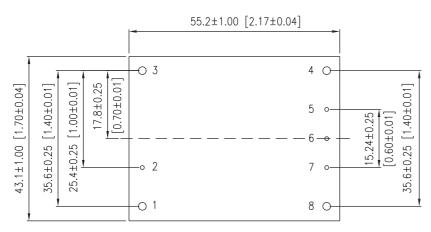
- (1) All specifications are measured at nominal input voltage, constant resistive load between Min. and Max. output current, Ta = +25°C.
- (2) When Load is lower than Min. output current or under no-load, it will not damage the devices; however, it may not meets all specifications.
- (3) Output Ripple & Noise Test please refers to Sinpro Electronics Co., Ltd. proposed test-method.
- (4) Load Regulation and Line Regulation calculating please refers to Sinpro Electronics Co., Ltd. proposed
- (5) An external fuse is needed at the front end of DC/DC converters for protection and base on surge current and maximum input current when settle it in recommended.
- (6) Ripple & Noise measurement bandwidth Should be under 20MHz, with a 0.47uF MLCC.
- (7) That natural convection "Is about 0.25m/s but is not equal to still air".

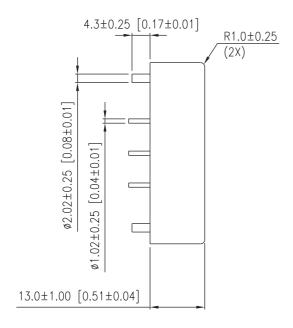
Derating Curve:



- 1. Operating Temperature: -40 to 75°C
- 2. Derate linearly from 100% load at 40°C to 40% load at 75°C

Mechanical Specifications:





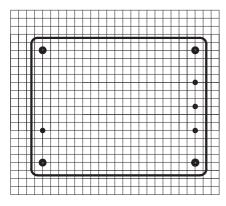
Pin Connections:

Pin	Single	
1	+Vin	
2	Remote on/off	
3	-Vin	
4	-Vout	
5	-Sense	
6	Trim	
7	+Sense	
8	+Vout	

Note:

- $1.\ Dimensions\ are\ shown\ in\ mm.$
- 2. Weight: 72gs.

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