

MODEL	LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48
MAX OUTPUT WATTAGE[W]	33	50	51.6	52.5	60	60	62.4
DC OUTPUT	3.3V 10A	5V 10A	12V 4.3A	15V 3.5A	24V 2.5A	24V 2.5 (Peak 3.2) A	48V 1.3A

SPECIFICATIONS

	MODEL		LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48			
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)						
	CURRENT[A]	ACIN 100V	0.8typ (lo=100%)	1.3typ (lo=100%	6)							
	FREQUENCY[Hz]		47 - 440 (Refer	to Instruction Ma	nual 1.1)							
NPUT	EFFICIENCY[%]	ACIN 100V	74.0typ (lo=100%)	79.0typ (lo=100%)	82.0typ (lo=100%)	83.0typ (lo=100%)	85.0typ (lo=100%)	85.0typ (lo=100%)	85.0typ (lo=100%			
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%), (At cold start),	(Ta= 25℃)							
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)									
	VOLTAGE[V]		3.3	5	12	15	24	24	48			
	CURRENT[A]	*3	10.0	10.0	4.3	3.5	2.5	2.5 (Peak 3.2)	1.3			
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	192max			
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max			
		0 to +50℃ 👬	80max	80max	120max	120max	120max	240max	150max			
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max			
		0 to +50℃ 👬	120max	120max	150max	150max	150max	300max	350max			
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	160max	160max	180max	180max	180max	360max	400max			
		0 to +50℃*4	50max	50max	120max	150max	240max	240max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50°C*4	60max	60max	150max	180max	290max	290max	600max			
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	192max			
	START-UP TIME[ms]		200max (ACIN	100V, lo=100%)			-					
	HOLD-UP TIME[ms]		20typ (ACIN 100	0V, lo=100%)								
	OUTPUT VOLTAGE ADJUSTMENT	[RANGE[V]	2.85 - 3.63 Fixed ("Y"which can be adjusted the output is available as optional \pm 10%)									
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	4.90 - 5.30	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00			
	OVERCURRENT PROT	ECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically									
ROTECTION	OVERVOLTAGE PROTE	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20			
IRCUIT AND	OPERATING INDICA	TION	Not provided									
OTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Not provided									
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	DOV 50M $_{\Omega}$ min (A	At Room Tempera	ature)				
SOLATION	INPUT-FG		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	DOV 50M $_{\Omega}$ min (A	At Room Tempera	ature)				
	OUTPUT-FG		AC500V 1minut	e, Cutoff current	= 25mA, DC500	V 50M Ω min (At	Room Temperate	ure)				
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C, 20) - 90%RH (Non	condensing) (Re	efer to Instruction	Manual 3.2), 3,00	00m (10,000feet)	max			
NVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000feet)						
	VIBRATION		10 - 55Hz, 19.6	m/s² (2G), 3minu	ites period, 60mi	nutes each along	X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	AGENCY APPROVAL				,	mplies with DEN-						
EGULATIONS	CONDUCTED NOISE					11-B, EN55022-E						
OTHERS	CASE SIZE/WEIGHT					<h×d) 160g="" m<="" td=""><td>ax (without chase</td><td>sis and cover)</td><td></td></h×d)>	ax (without chase	sis and cover)				
	COOLING METHOD		Convection (Ref	er to Instruction I	Manual 3.2)							

*

*1 This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: *4 Only output 24V and 48V DC models are applied that the upper temperature limit is 45°C.
 * Avoid prolonged use under over - load.
 * Parallel operation with other model is not possible.
 * Derating is required when operated with chassis and cover.

A sound may occur from power supply at pulse loading.

RM-103).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C,

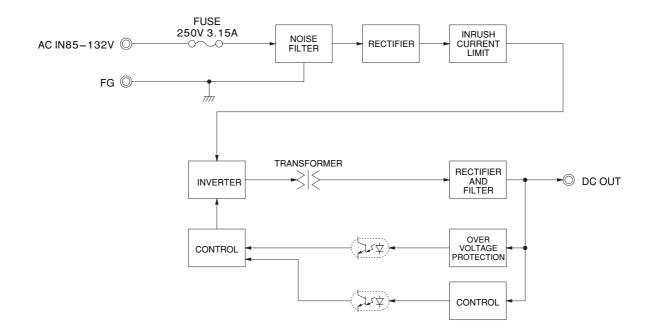
with the input voltage held constant at the rated input/output. *3 Peak loading for 10sec.And Duty 35% max or less is acceptable if the total wattage is less than the rated wattage (24V:60W).

LGA-2

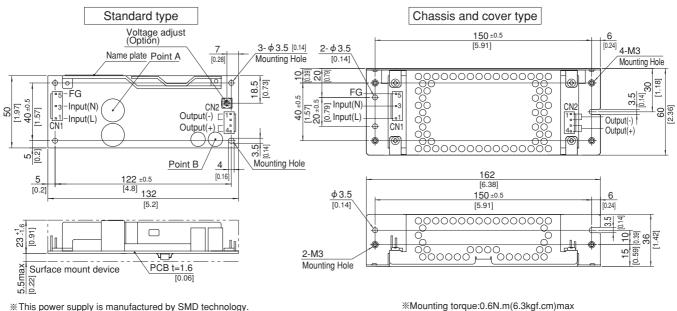
Refer to instruction Manual 5. In detail

LGA50A | CO\$EL

Block diagram



External view



** This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care. Take care for SMD parts on the back to come in contact

because of the vibration and not to break down.

% Use the spacer of 8mm length or more.

%4 Mounting holes are existing.

I/C	Connector	Mating connector	Terminal				
CNH	1 1100704 0	1-1123722-5	Chain	1123721-1			
CNT	1-1123724-3	1-1123/22-5	Loose	1318912-1			
0.10	4 4400700 4	1-1123722-4	Chain	1123721-1			
CIN2	1-1123723-4	1-1123/22-4	Loose	1318912-1			
(Mfr:Tyco Electronics AMP)							

%I/O Connector is Mfr Tyco Electronics AMP

*Option:-J1:VH(J.S.T) connector type.

Refer to instruction Manual 5.

4 3, 4 5 FG

<PIN CONNECTION>

Input

AC(L)

AC(N)

CN1

Pin No.

2

3

%Keep drawing current per pin below 5A for CN2.

CN2

Pin No.

1, 2

Output

-V

+V

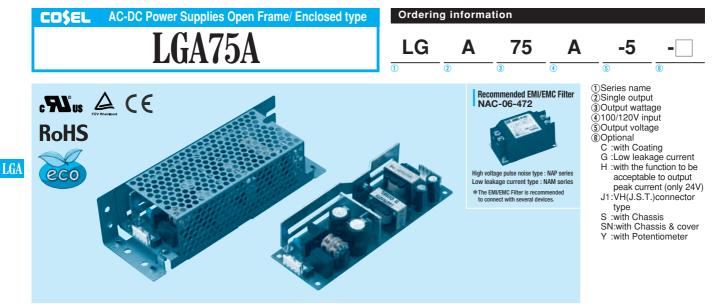
*Tolerance : ±1 [±0.04]

Weight : 160g max (without chassis and cover)
 PCB material / thickness : CEM3 / 1.6mm [0.06]
 WOptional chassis and cover material : Electric galvanizing steel board.

*Dimensions in mm, []=inches

LGA-3

LGA



MODEL	LGA75A-3R3-Y	LGA75A-5	LGA75A-12	LGA75A-15	LGA75A-24	LGA75A-24-H	LGA75A-48
MAX OUTPUT WATTAGE[W]	49.5	75	75.6	75	76.8	76.8	76.8
DC OUTPUT	3.3V 15A	5V 15A	12V 6.3A	15V 5A	24V 3.2A	24V 3.2 (Peak 4.2) A	48V 1.6A

SPECIFICATIONS

	MODEL		LGA75A-3R3-Y	LGA75A-5	LGA75A-12	LGA75A-15	LGA75A-24	LGA75A-24-H	LGA75A-48			
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)						
	CURRENT[A]	ACIN 100V	1.3typ (lo=100%)									
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)									
INPUT	EFFICIENCY[%]	ACIN 100V	75.0typ (lo=100%)	79.0typ (lo=100%)	83.0typ (lo=100%)	84.0typ (lo=100%)	86.0typ (lo=100%)	86.0typ (lo=100%)	86.0typ (lo=100%)			
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%), (At cold start),	(Ta= 25℃)							
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)									
	VOLTAGE[V]		3.3	5	12	15	24	24	48			
	CURRENT[A]	*3	15.0	15.0	6.3	5.0	3.2	3.2 (Peak 4.2)	1.6			
	LINE REGULATION	mV]	20max	20max	48max	60max	96max	96max	192max			
	LOAD REGULATION	l[mV]	40max	40max	100max	120max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	240max	150max			
	IIII I CE[IIIVP-P]	-10 - 0°C *1	140max	140max	160max	160max	160max	320max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	300max	350max			
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max			
	TEMPERATURE REGULATION(mV)	0 to +50℃	50max	50max	120max	150max	240max	240max	480max			
		-10 to +50℃	60max	60max	150max	180max	290max	290max	600max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	96max	192max			
	START-UP TIME[ms]			100V, lo=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 10									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63		, ,	the output is ava						
	OUTPUT VOLTAGE SET		3.30 - 3.40	4.90 - 5.30	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00			
	OVERCURRENT PROT				1	peak current at o		1	1			
PROTECTION	OVERVOLTAGE PROT	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20			
	OPERATING INDICA	TION	Not provided									
OTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Not provided									
	INPUT-OUTPUT					$00V 50M\Omega \min(\lambda)$						
ISOLATION	INPUT-FG					$00V 50M\Omega \min(\lambda)$	I					
	OUTPUT-FG					V 50M Ω min (At						
	OPERATING TEMP.,HUMID.AND		-		0	efer to Instruction		00m (10,000feet)	max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max								
	VIBRATION				•	nutes each along	X, Y and Z axis					
	IMPACT											
	AGENCY APPROVA					mplies with DEN-						
REGULATIONS	CONDUCTED NOISE					11-B, EN55022-E						
OTHERS	CASE SIZE/WEIGHT	•		•		xHxD) / 200g n	nax (without chas	ssis and cover)				
	COOLING METHOD		Convection (Re	fer to Instruction I	Manual 3.2)							

This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal. *1

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
*3 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage.

Refer to instruction Manual 5. In detail.

Avoid prolonged use under over - load. Parallel operation with other model is not possible.

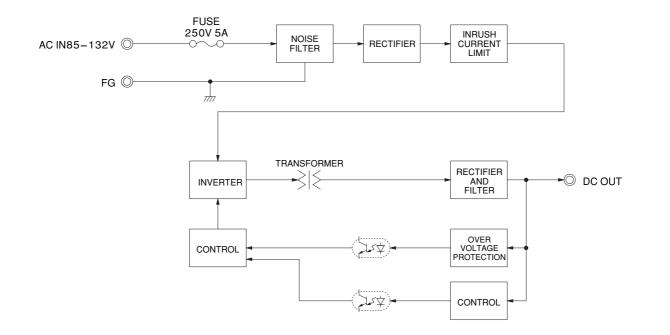
Derating is required when operated with chassis and cover.

* A sound may occur from power supply at pulse loading.

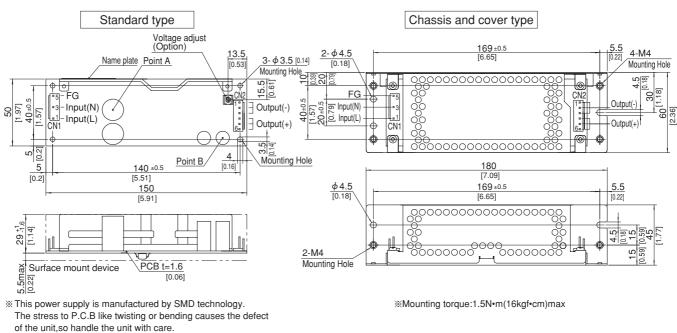
LGA75A | CO\$EL

LGA

Block diagram



External view



- Take care for SMD parts on the back to come in contact because of the vibration and not to break down.
- % Use the spacer of 8mm length or more.

%4 Mounting hole

<	4 Mounting holes are existing.								
	I/C	Connector	Mating connector	Terminal					
	CNI	1-1123724-3	1-1123722-5	Chain	1123721-1				
	CIVI	1-1123724-3	1-1123/22-5	Loose	1318912-1				
	CNIO	1-1123723-6	1-1123722-6	Chain	1123721-1				
	CINZ	1-1123723-0	1-1123/22-0	Loose	1318912-1				
	(Mfr:Tyco Electronics AMP)								

%I/O Connector is Mfr Tyco Electronics AMP

*Option:-J1:VH(J.S.T) connector type. Refer to instruction Manual 5.

%Keep drawing current per pin below 5A for CN2.

<PIN CONNECTION>

Input

AC(L)

AC(N)

FG

CN1

Pin No.

2

3

4

5

%Tolerance : ±1 [±0.04] :Weight : 200g max (without chassis and cover) %PCB material / thickness : CEM3 / 1.6mm [0.06] *Optional chassis and cover material : Electric galvanizing steel board. *Dimensions in mm, []=inches

4 to 6

CN2

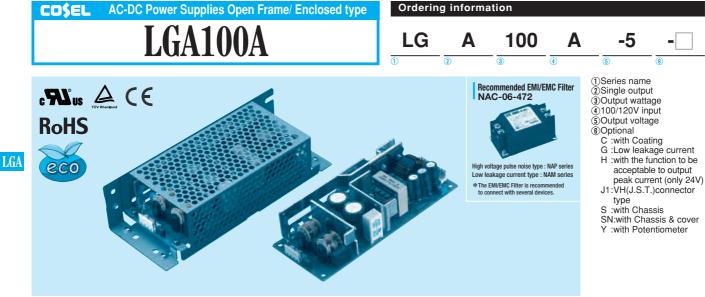
Pin No.

1 to 3

Output

-V

+V



MODEL	LGA100A-3R3-Y	LGA100A-5-Y	LGA100A-12	LGA100A-15	LGA100A-24	LGA100A-24-H	LGA100A-48
MAX OUTPUT WATTAGE[W]	66	100	102	105	103.2	103.2	100.8
DC OUTPUT	3.3V 20A	5V 20A	12V 8.5A	15V 7A	24V 4.3A	24V 4.3 (Peak 5.4) A	48V 2.1A

SPECIFICATIONS

	MODEL		LGA100A-3R3-Y	LGA100A-5-Y	LGA100A-12	LGA100A-15	LGA100A-24	LGA100A-24-H	LGA100A-48			
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)						
	CURRENT[A]	ACIN 100V	1.6typ (lo=100%) 2.4typ (lo=100%)									
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)									
INPUT	EFFICIENCY[%]	ACIN 100V	76.0typ (lo=100%)	80.0typ (lo=100%)	83.0typ (lo=100%)	84.0typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)			
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%, More than 10sec. to re-start)									
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)									
	VOLTAGE[V]		3.3	5	12	15	24	24	48			
	CURRENT[A]	*3	20.0	20.0	8.5	7.0	4.3	4.3 (Peak 5.4)	2.1			
	LINE REGULATION[n		20max	20max	48max	60max	96max	96max	192max			
	LOAD REGULATION	l[mV]	40max	40max	100max	120max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	240max	150max			
	III.I.EF[IIIAb-b]	-10 - 0°C *1	140max	140max	160max	160max	160max	320max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	300max	350max			
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max			
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	240max	480max			
		-10 to +50℃	60max	60max	150max	180max	290max	290max	600max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	96max	192max			
	START-UP TIME[ms]		200max (ACIN									
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)									
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	2.85 - 3.63 4.50 - 5.50 Fixed ("Y"which can be adjusted the output is available as optional $\pm 10\%$)									
	OUTPUT VOLTAGE SET		3.30 - 3.40	5.00 - 5.15	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00			
	OVERCURRENT PROT		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically									
PROTECTION	OVERVOLTAGE PROT	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20			
	OPERATING INDICA	TION	Not provided									
OTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Not provided									
	INPUT-OUTPUT					$00V 50M\Omega \min(A)$	I					
ISOLATION	INPUT-FG					DOV 50M Ω min (A						
	OUTPUT-FG					V 50M Ω min (At						
	OPERATING TEMP.,HUMID.AND		-		0	efer to Instruction	· · · · · · · · · · · · · · · · · · ·	00m (10,000feet)	max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE		1	0/ 1	000m (30,000feet)						
	VIBRATION					inutes each along	X, Y and Z axis					
	IMPACT				ach X, Y and Z a							
NOISE	AGENCY APPROVA					mplies with DEN-						
REGULATIONS	CONDUCTED NOISE					11-B, EN55022-E						
OTHERS	CASE SIZE/WEIGHT			•		H x D) / 300g max	(without chassis	s and cover)				
	COOLING METHOD		Convection (Ref	er to Instruction	Manual 3.2)							

This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal. *1

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
*3 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage.

Refer to instruction Manual 5. In detail.

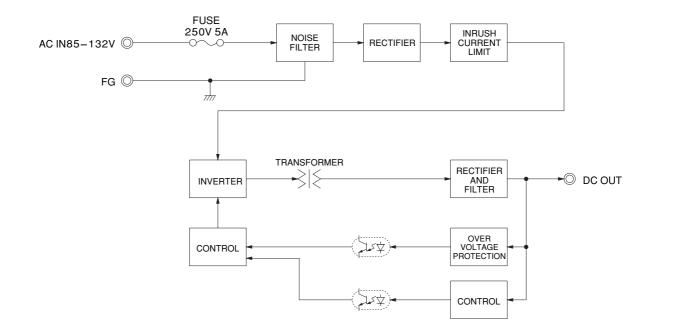
Avoid prolonged use under over - load. Parallel operation with other model is not possible.

Derating is required when operated with chassis and cover.

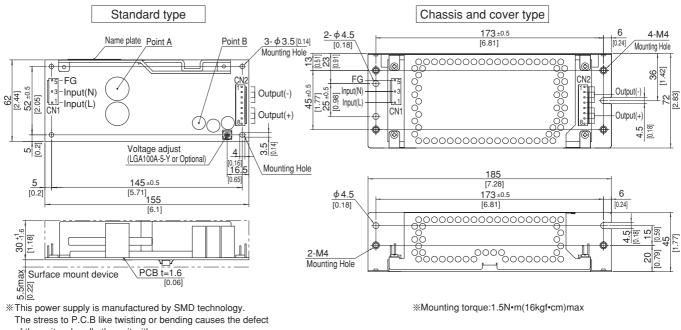
* A sound may occur from power supply at pulse loading.

LGA100A | COŞEL

LGA



External view



of the unit, so handle the unit with care.

Take care for SMD parts on the back to come in contact

because of the vibration and not to break down.

X Use the spacer of 8mm length or more.

*4 Mounting holes are existing

`	i mounting holoo aro existing.								
	I/C	Connector	Mating connector	Terminal					
	CNH	1-1123724-3	1-1123722-5	Chain	1123721-1				
	CINT	1-1123724-3	1-1123/22-5	Loose	1318912-1				
	CNIO	1-1123723-8	1-1123722-8	Chain	1123721-1				
	CINZ	1-1123723-8	1-1123/22-8	Loose	1318912-1				
	(Mfr:Tyco Electronics AMP)								

%I/O Connector is Mfr Tyco Electronics AMP

*Option:-J1:VH(J.S.T) connector type. Refer to instruction Manual 5.

%Keep drawing current per pin below 5A for CN2.

CN2

Pin No.

1 to 4

5 to 8

Output

-V

+V

<PIN CONNECTION>

Input

AC(L)

AC(N)

FG

CN1

Pin No.

1

2

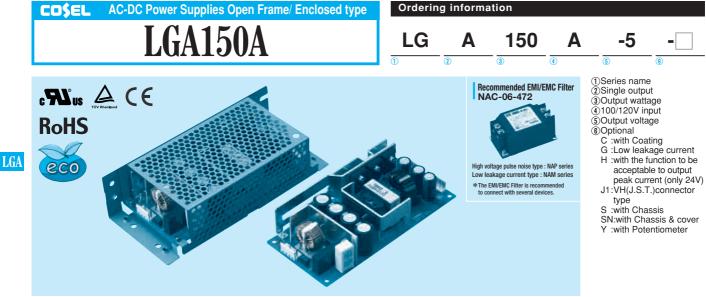
3

4

5

*Tolerance : ±1 [±0.04] Weight : 300g max (without chassis and cover) %PCB material / thickness : CEM3 / 1.6mm [0.06] *Optional chassis and cover material : Electric galvanizing steel board.

*Dimensions in mm, []=inches



MODEL	LGA150A-3R3-Y	LGA150A-5-Y	LGA150A-12	LGA150A-15	LGA150A-24	LGA150A-24-H	LGA150A-48
MAX OUTPUT WATTAGE[W]	99	150	150	150	151.2	151.2	153.6
DC OUTPUT	3.3V 30A	5V 30A	12V 12.5A	15V 10A	24V 6.3A	24V 6.3 (Peak 7.9) A	48V 3.2A

SPECIFICATIONS

	MODEL		LGA150A-3R3-Y	LGA150A-5-Y	LGA150A-12	LGA150A-15	LGA150A-24	LGA150A-24-H	LGA150A-48			
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)						
	CURRENT[A]	ACIN 100V	2.6typ (lo=100%)	2.6typ (lo=100%) 3.6typ (lo=100%)								
NIDUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)									
INPUT	EFFICIENCY[%]	ACIN 100V	76.0typ (lo=100%)	82.0typ (lo=100%)	84.5typ (lo=100%)	85.5typ (lo=100%)	87.0typ (lo=100%)	87.0typ (lo=100%)	87.0typ (lo=100%)			
	INRUSH CURRENT[A]	ACIN 100V	15 /15 typ (Prim	nary / Secondary	Surge Current, I	o=100%, More th	an 10sec. to re-s	tart)				
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)									
	VOLTAGE[V]		3.3	5	12	15	24	24	48			
	CURRENT[A]	*3	30.0	30.0	12.5	10.0	6.3	6.3 (Peak 7.9)	3.2			
	LINE REGULATION[r		20max	20max	48max	60max	96max	96max	192max			
-	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +40℃ *1	80max	80max	120max	120max	120max	240max	150max			
	піггссішур-рј	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max			
	RIPPLE NOISE[mVp-p]	0 to +40℃ *1	120max	120max	150max	150max	150max	300max	350max			
OUTPUT		-10 - 0°C *1	160max	160max	180max	180max	180max	360max	400max			
	TEMPERATURE REGULATION[mV]	0 to +40℃	50max	50max	120max	150max	240max	240max	480max			
	TEMPERATURE REGULATION[mv]	-10 to +40℃	60max	60max	150max	180max	290max	290max	600max			
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	192max			
:	START-UP TIME[ms]		200max (ACIN	100V, lo=100%)	-		-		-			
	HOLD-UP TIME[ms]		20typ (ACIN 10	0V, lo=100%)								
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63	4.50 - 5.50	Fixed ("Y"which	n can be adjusted	the output is available	ailable as optiona	l ±10%)			
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	5.00 - 5.15	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00			
	OVERCURRENT PROT	ECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically									
PROTECTION	OVERVOLTAGE PROT	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20			
CIRCUIT AND	OPERATING INDICA	TION	Not provided									
OTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Not provided									
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	DOV 50M Ω min (λ	At Room Temper	ature)				
ISOLATION	INPUT-FG		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	DOV 50M $_{\Omega}$ min (/	At Room Temper	ature)				
	OUTPUT-FG		AC500V 1minut	e, Cutoff current	= 25mA, DC500	V 50M Ω min (At	Room Temperat	ture)				
	OPERATING TEMP., HUMID.AND) ALTITUDE	-10 to +60℃, 20	0 - 90%RH (Non	condensing) (Re	efer to Instruction	Manual 3.2), 3,00	00m (10,000feet)	max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20	0 - 90%RH (Non	condensing), 9,0	000m (30,000feet) max					
	VIBRATION		10 - 55Hz, 19.6	m/s² (2G), 3minu	ites period, 60mi	nutes each along	X, Y and Z axis	;				
	IMPACT		196.1m/s ² (20G), 11ms, once ea	ich X, Y and Z a	xis						
NOISE	AGENCY APPROVA					mplies with DEN-						
REGULATIONS	CONDUCTED NOISE		-			11-B, EN55022-E						
OTHERS	CASE SIZE/WEIGHT			•		H×D) / 420g max	(without chassis	and cover)				
UTIENS	COOLING METHOD		Convection (Ret	fer to Instruction I	Manual 3.2)							

This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal. *1

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
*3 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage.

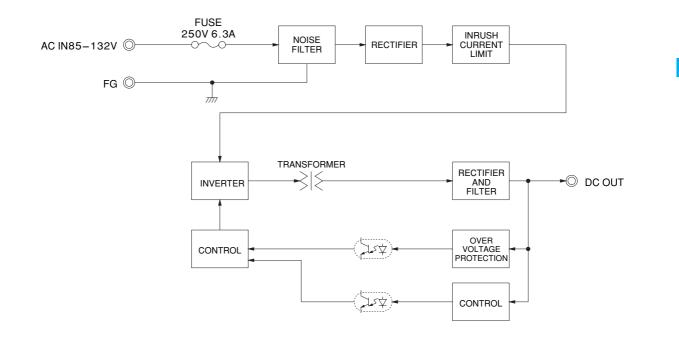
Refer to instruction Manual 5. In detail.

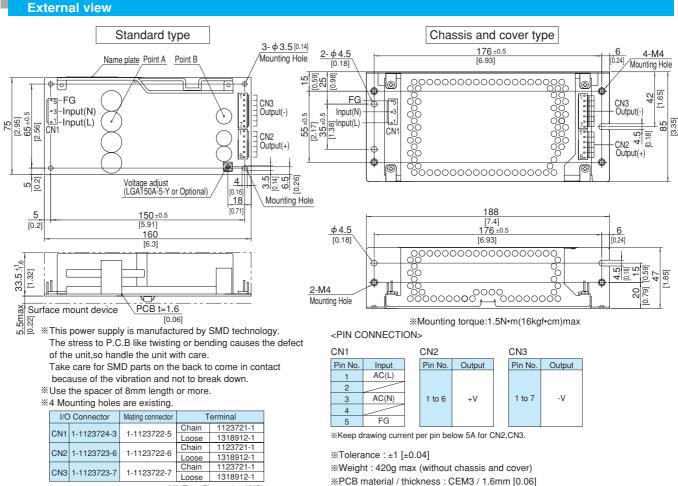
Avoid prolonged use under over - load. Parallel operation with other model is not possible.

Derating is required when operated with chassis and cover.

A sound may occur from power supply at pulse loading.

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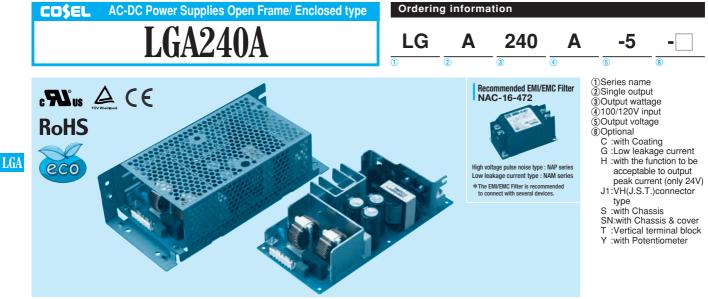
(Mfr:Tyco Electronics AMP)

%I/O Connector is Mfr Tyco Electronics AMP %Option:-J1:VH(J.S.T) connector type.

Refer to instruction Manual 5.

steel board.

Dimensions in mm, []=inches



MODEL	LGA240A-24	LGA240A-24-H
MAX OUTPUT WATTAGE[W]	240	240
DC OUTPUT	24V 10A	24V 10 (Peak 12.5) A

SPECIFICATIONS

	MODEL		LGA240A-24	LGA240A-24-H	
	VOLTAGE[V]		AC85 - 132 1 ϕ (Refer to Instruction Manual 1.1, and 3.2 Derating)		
			5.0typ (lo=100%)		
	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)		
	EFFICIENCY[%]	ACIN 100V	86.5typ (lo=100%)	86.5typ (lo=100%)	
	INRUSH CURRENT[A] ACIN 100V		15 / 20 typ (Primary / Secondary Surge Current, Io=100%, More than 10sec. to re-start)		
	LEAKAGE CURRENT[mA]		0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
оитрит	VOLTAGE[V]		24	24	
	CURRENT[A] *3		10.0	10.0 (Peak 12.5)	
	LINE REGULATION[mV]		96max	96max	
	LOAD REGULATION[mV]		150max	150max	
	RIPPLE[mVp-p]	0 to +40℃ *1	120max	240max	
		-10 - 0℃ *1	160max	320max	
	RIPPLE NOISE[mVp-p]	0 to +40℃ *1	150max	300max	
		-10 - 0℃ *1	180max	360max	
	TEMPERATURE REGULATION[mV]	0 to +40℃		240max	
		-10 to +40℃	290max	290max	
	DRIFT[mV] *2		96max	96max	
	START-UP TIME[ms]		200max (ACIN 100V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed ("Y"which can be adjusted the output is available as optional ±10%)		
	OUTPUT VOLTAGE SETTING[V]		23.00 - 25.00 23.00 - 25.00		
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically		
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION		27.60 - 35.00	27.60 - 35.00	
	OPERATING INDICATION		Not provided		
	REMOTE SENSING		Not provided		
	REMOTE ON/OFF		Not provided		
ISOLATION	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
	OUTPUT-FG OPERATING TEMP.,HUMID.AND ALTITUDE		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature) -10 to +60°C, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max		
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE		-10 to $+00$ C, $20 - 90$ %RH (Non condensing) (Relet to instruction Manual 3.2), 3,000m (10,000leet) max		
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT		19.1m/s ² (2G), 11ms, once each X, Y and Z axis		
SAFETY AND	AGENCY APPROVAL	S	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN		
	S CONDUCTED NOISE Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B				
OTHERS	CASE SIZE/WEIGHT		84 x 48.5 x 180mm [3.31 x 1.91 x 7.09 inches] (W x H x D) / 590g max (without chassis and cover)		
			Convection (Refer to Instruction Manual 3.2)		

This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal. *1

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
*3 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage.

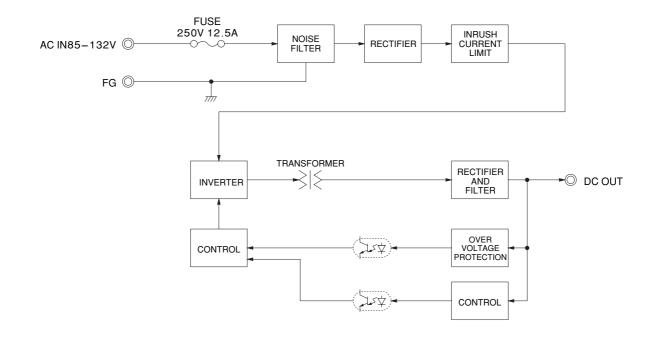
Refer to instruction Manual 5. In detail

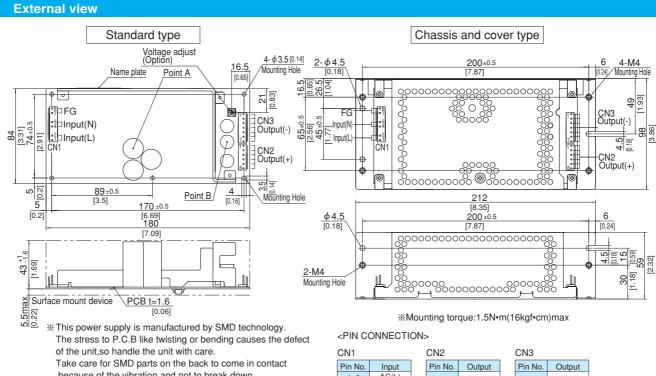
Avoid prolonged use under over - load. Parallel operation with other model is not possible.

Derating is required when operated with chassis and cover.

* A sound may occur from power supply at pulse loading.

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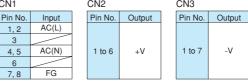




- because of the vibration and not to break down.
- % Use the spacer of 8mm length or more.
- %5 Mounting holes are existing.

I/C	Connector	Mating connector	Terminal				
CNI	7-1565036-6	1-1123722-8	Chain	1123721-1			
CINT	7-1202030-0		Loose	1318912-1			
CNIO	1-1123723-6	1-1123722-6	Chain	1123721-1			
CINZ	1-1123/23-0		Loose	1318912-1			
CN3	1-1123723-7	1-1123722-7	Chain	1123721-1			
	1-1123/23-/	1-1123/22-7	Loose	1318912-1			
(Mfr:Tyco Electronics AMP)							

%I/O Connector is Mfr Tyco Electronics AMP %Option:-J1:VH(J.S.T) connector type.



%Keep drawing current per pin below 5A for CN1, CN2 and CN3.

%Tolerance : ±1 [±0.04]

- Weight : 590g max (without chassis and cover)
- %PCB material / thickness : CEM3 / 1.6mm [0.06] *Optional chassis and cover material : Electric galvanizing
- steel board.
- *Dimensions in mm, []=inches

LGA

Refer to instruction Manual 5.