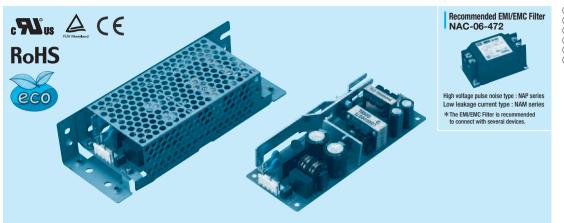
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LGA



①Series name ②Single output

- (3)Output wattage 4 100/120V input
- ⑤Output voltage
- ®Optional
 C :with Coating
 G :Low leakage current
 - H :with the function to be acceptable to output peak current (only 24V) J1:VH(J.S.T.)connector type S :with Chassis

 - SN:with Chassis & cover
 - Y :with Potentiometer

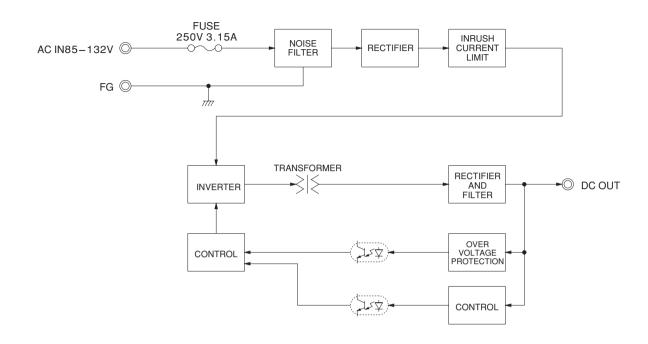
This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care.

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

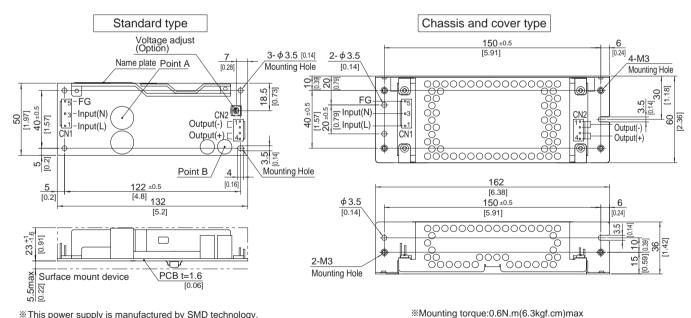
	MODEL		LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48		
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating					
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)	1.3typ (Io=100%	6)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer	47 - 440 (Refer to Instruction Manual 1.1)							
INFUI	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 (Io=100%)		
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=100%	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		
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	240max	150max		
	KIFFEE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50°C *1/4	120max	120max	150max	150max	150max	300max	350max		
OUTPUT	KIFFEE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
	TEMPERATURE REGULATION[mV]	0 to +50°C *4	50max	50max	120max	150max	240max	240max	480max		
	TEMPERATURE REGULATION[IIIV]	-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	<u>:</u>							
	HOLD-UP TIME[ms]		20typ (ACIN 100	OV, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63 Fixed ("Y"which can be adjusted the output is available as optional ± 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								
PROTECTION	OVERVOLTAGE PROTI		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 (· · · · · · · · · · · · · · · · · · ·			
ISOLATION	INPUT-FG					$00V$ $50M\Omega$ min (
	OUTPUT-FG					$N > 50 M\Omega$ min (At					
	OPERATING TEMP.,HUMID.AND				0	efer to Instruction		00m (10,000feet)	max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000feet					
	VIBRATION				<u>'</u>	inutes each along	X, Y and Z axis				
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
NOISE	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN								
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-I					
OTHERS	CASE SIZE/WEIGHT					×H×D) / 160g m	ax (with chassis	& cover : 320g m	ax)		
	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 µF at 150mm from output terminal.
 - 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.

 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less
- than the rated wattage (24V:60W). Refer to instruction Manual 5. In detail.
- *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.



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						
CNI 1 1122724 2 1 11		1 1100700 5	Chain	1123721-1					
CN1	1-1123/24-3	1-1123722-5	Loose	1318912-1					
CNO	4 4400700 4	20 4 4 4 4 2 2 7 2 2 4	Chain	1123721-1					
CN2	1-1123723-4	1-1123722-4	Loose	1318912-1					
	CN1	I/O Connector CN1 1-1123724-3 CN2 1-1123723-4	CN1 1-1123724-3 1-1123722-5	CN1 1-1123724-3 1-1123722-5 Chain Loose CN2 1-1123723-4 1-1123723-4 Chain					

(Mfr:Tyco Electronics AMP)

%I/O Connector is Mfr Tyco Electronics AMP

<PIN CONNECTION>

		CN2	
Input		Pin No.	Output
AC(L)			
		1, 2	-V
AC(N)			
		3.4	+V
FG		0, 4	. •
	AC(L)	Input AC(L) AC(N)	AC(L) 1, 2 AC(N) 3, 4

^{*}Keep drawing current per pin below 5A for CN2.

**Tolerance : ±1 [±0.04]

Weight: 160g max (with chassis & cover: 320g max) %PCB material / thickness : CEM3 / 1.6mm [0.06]

XOptional chassis and cover material: Electric galvanizing steel board.

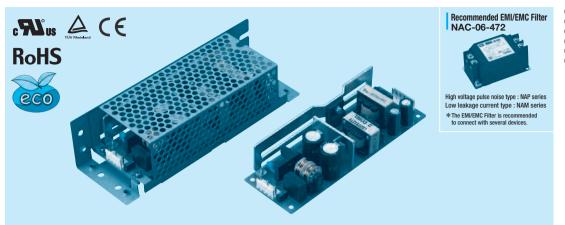
*Dimensions in mm, []=inches

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

LGA75A

A 75 A §

LGA



①Series name ②Single output

- (3)Output wattage 4 100/120V input
- ⑤Output voltage
- Optional
 C :with Coating
 G :Low leakage current
 - H :with the function to be acceptable to output peak current (only 24V) J1:VH(J.S.T.)connector type S :with Chassis
- SN:with Chassis & cover
- Y :with Potentiometer

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.

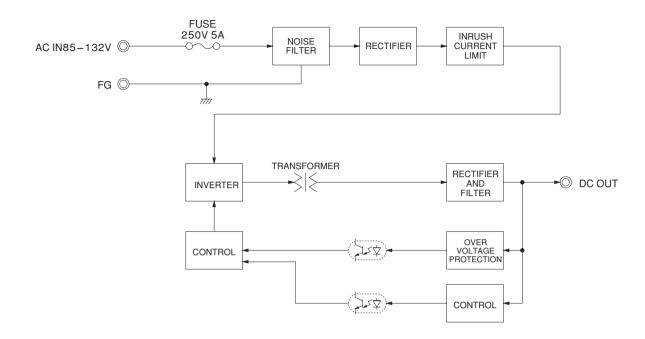
MODEL	LGA75A-3R3-Y	LGA75A-5	LGA75A-12	LGA75A-15	LGA75A-24	LGA75A-24-H	LGA75A-48
MAX OUTPUT WATTAGE[W]	49.5	75	75.6	75	76.8	76.8	76.8
DC OUTPUT	3.3V 15A	5V 15A	12V 6.3A	15V 5A	24V 3.2A	24V 3.2 (Peak 4.2) A	48V 1.6A

	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 (Io=100%)	1.7typ (lo=100%	6)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)								
INFUI	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 (Io=100%), (At cold start),	(Ta= 25°C)						
	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	[mV]	40max	40max	100max	120max	150max	150max	300max		
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	240max	150max		
	KIFFEE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50°C * 1	120max	120max	150max	150max	150max	300max	350max		
OUTPUT	KIFFEE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	240max	480max		
	TEMPERATURE REGULATION[IIIV]	-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	<u>.</u>							
	HOLD-UP TIME[ms]		20typ (ACIN 100	OV, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63	Fixed ("Y"which	can be adjusted	the output is ava	ailable as optiona	al ± 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		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically								
PROTECTION	OVERVOLTAGE PROTI		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 Ω min (· · · · · · · · · · · · · · · · · · ·			
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
	OUTPUT-FG					V 50M Ω min (At					
	OPERATING TEMP.,HUMID.AND					efer to Instruction		00m (10,000feet)	max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000feet					
	VIBRATION				<u> </u>	inutes each along	X, Y and Z axis	1			
	IMPACT		· ·), 11ms, once ea							
NOISE	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN								
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-I					
OTHERS	CASE SIZE/WEIGHT	'				XHXD) / 200g r	nax (with chassis	& cover : 410g n	nax)		
	COOLING METHOD		Convection (Ref	er to Instruction I	Manual 3.2)						

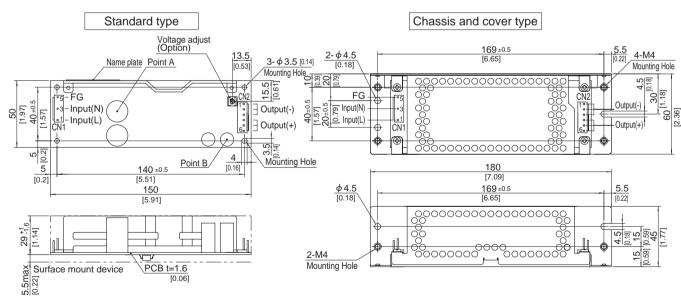
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with 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.



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

• \	4 Mounting notes are existing.								
	I/C	Connector	Mating connector	Terminal					
	CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1				
	CN1	1-1123724-3	1-1123722-5	Loose	1318912-1				
	CNIO	1-1123723-6	23723-6 1-1123722-6		1123721-1				
	CINZ	1-1123723-0	1-1123722-0	Loose	1318912-1				

(Mfr:Tyco Electronics AMP)

<PIN CONNECTION>

CN1		CN2							
Pin No.	Input		Pin No.	Output					
1	AC(L)								
2			1 to 3	-V					
3	AC(N)								
4			4 to 6	+V					
5	FG		. 10 0						
	*Keep drawing current per pin below 5A for CN2.								

%Tolerance : ±1 [±0.04] %Weight : 200g max (wi

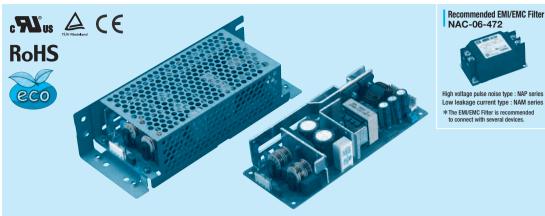
Mounting torque:1.5N•m(16kgf•cm)max

- ※Optional chassis and cover material: Electric galvanizing steel board.
- **Dimensions in mm, []=inches

※I/O Connector is Mfr Tyco Electronics AMP ※Option:-J1:VH(J.S.T) connector type. Refer to instruction Manual 5.

LGA100A

A 100 A



Recommended EMI/EMC Filter NAC-06-472

- ①Series name ②Single output (3)Output wattage 4 100/120V input
- ⑤Output voltage
- Optional
 C :with Coating
 G :Low leakage current
 - H :with the function to be acceptable to output peak current (only 24V) J1:VH(J.S.T.)connector type S :with Chassis

 - SN:with Chassis & cover Y :with Potentiometer
- 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.

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

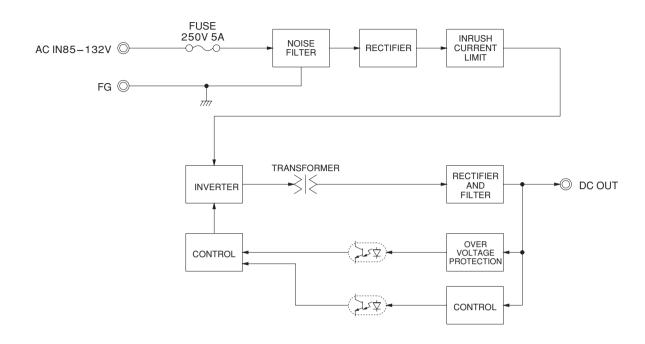
LGA

	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	ction Manual 1.1,	and 3.2 Derating)					
	CURRENT[A]	ACIN 100V	1.6typ (Io=100%)	2.4typ (lo=100°	%)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer	47 - 440 (Refer to Instruction Manual 1.1)							
INPUT	EFFICIENCY[%]	ACIN 100V	76.0typ (lo=100%)	80.0typ (Io=100%)	83.0typ (lo=100%)	84.0typ (Io=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[I	mV]	20max	20max	48max	60max	96max	96max	192max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max		
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	240max	150max		
	KIFFEE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	300max	350max		
OUTPUT	KIFFEE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	240max	480max		
D S H	TEMPERATURE REGULATION[IIV]	-10 to +50℃	60max	60max	150max	180max	290max	290max	600max		
	DRIFT[mV] *		20max	20max	48max	60max	96max	96max	192max		
	START-UP TIME[ms]		200max (ACIN								
	HOLD-UP TIME[ms]		20typ (ACIN 100	OV, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63	4.50 - 5.50	Fixed ("Y"which	can be adjusted		ilable as optiona	<u>l ± 10%)</u>		
	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		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically								
PROTECTION	OVERVOLTAGE PROTE		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 OTHERS	OPERATING INDICA	TION	Not provided								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT					00V 50M Ω min (
ISOLATION	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG					V 50M Ω min (At					
	OPERATING TEMP.,HUMID.AND					efer to Instruction		00m (10,000feet)	max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE		b +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	VIBRATION						X, Y and Z axis				
	IMPACT	_	196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN								
NOISE	AGENCY APPROVAL				•	•					
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-E			`		
OTHERS	CASE SIZE/WEIGHT					H x D) / 300g max	(with chassis &	cover : 530g max	()		
	COOLING METHOD		Convection (Ref	er to Instruction	Manual 3.2)						

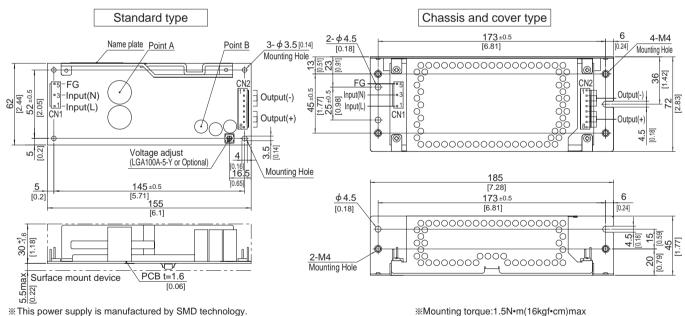
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with 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.



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. Wuse the spacer of 8mm length or more.

%4 Mounting holes are existing.

I/O Connector		Mating connector	Terminal		
CNIA	4 4400704 0	1-1123722-5	Chain	1123721-1	
CIVI	CN1 1-1123724-3	1-1123722-5	Loose	1318912-1	
CNIO	1-1123723-8	1-1123722-8	Chain	1123721-1	
CNZ	1-1123723-8	1-1123722-8	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.

<PIN CONNECTION>

CN1		CN2	
Pin No.	Input	Pin No.	Output
1	AC(L)		
2		1 to 4	-V
3	AC(N)		
4		5 to 8	+V
5	FG	0 10 0	

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

- **Tolerance : ±1 [±0.04]
- Weight: 300g max (with chassis & cover: 530g max)
- %PCB material / thickness: CEM3 / 1.6mm [0.06]
- **Optional chassis and cover material : Electric galvanizing steel board.
- %Dimensions in mm, []=inches

LGA150A

A 150 A

LGA



①Series name ②Single output

(3)Output wattage 4 100/120V input

⑤Output voltage

®Optional
 C :with Coating
 G :Low leakage current

H :with the function to be acceptable to output peak current (only 24V) J1:VH(J.S.T.)connector type S :with Chassis

SN:with Chassis & cover

Y :with Potentiometer

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.

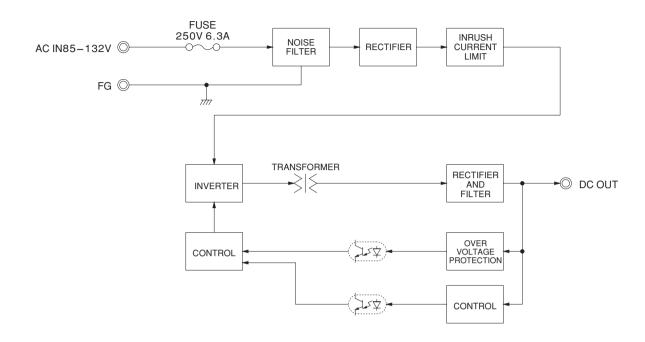
MODEL	LGA150A-3R3-Y	LGA150A-5-Y	LGA150A-12	LGA150A-15	LGA150A-24	LGA150A-24-H	LGA150A-48
MAX OUTPUT WATTAGE[W]	99	150	150	150	151.2	151.2	153.6
DC OUTPUT	3.3V 30A	5V 30A	12V 12.5A	15V 10A	24V 6.3A	24V 6.3 (Peak 7.9) A	48V 3.2A

	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 Instruction Manual 1.1, and 3.2 Derating)						
	CURRENT[A] ACIN 100V		2.6typ (Io=100%) 3.6typ (Io=100%)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)						
INPUI	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 (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)						
	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[mV]	20max	20max	48max	60max	96max	96max	192max
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p]	0 to +40°C * 1	80max	80max	120max	120max	120max	240max	150max
	KIPPLE[IIIVP-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max
	RIPPLE NOISE[mVp-p]	0 to +40°C *1	120max	120max	150max	150max	150max	300max	350max
OUTPUT	KIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max
	TEMPERATURE REGULATION[mV]	0 to +40℃	50max	50max	120max	150max	240max	240max	480max
	TEMPERATURE REGULATION[IIV]	-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, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63	4.50 - 5.50	Fixed ("Y"which	can be adjusted	the output is ava	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 PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically						
PROTECTION	OVERVOLTAGE PROTI	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 INDICATION		Not provided						
OTHERS	REMOTE SENSING		Not provided						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)						
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max						
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
LITTINONINLITT	VIBRATION		10 - 55Hz, 19.6	m/s² (2G), 3minu	tes period, 60mi	inutes each along	X, Y and Z axis	i .	
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
NOISE	AGENCY APPROVAL				·	mplies with DEN-			
REGULATIONS	CONDUCTED NOISE					11-B, EN55022-E			
OTHERS	CASE SIZE/WEIGHT		75 × 39 × 160mr	m [2.95×1.54×6	.3 inches] (W x H	H x D) / 420g max	(with chassis &	cover : 650g max)
OTTLENG	COOLING METHOD		Convection (Ref	fer to Instruction I	Manual 3.2)				

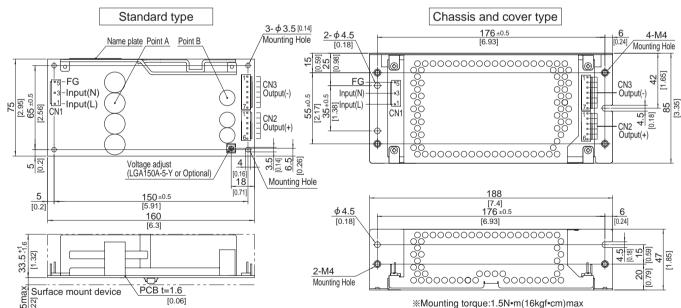
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with 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.



External view



CN₁

Pin No.

3

5

%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/O Connector		Mating connector	Т	erminal
	CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
	CIVI	1-1123724-3		Loose	1318912-1
	CN2	1-1123723-6	1-1123722-6	Chain	1123721-1
				Loose	1318912-1
	CNO	1-1123723-7	1-1123722-7	Chain	1123721-1
	CN3			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,CN3.

CN₂

Pin No.

1 to 6

CN₃

Pin No.

1 to 7

Output

-\/

Output

+\/

**Tolerance : ±1 [±0.04]

<PIN CONNECTION>

Input

AC(L)

AC(N)

FG

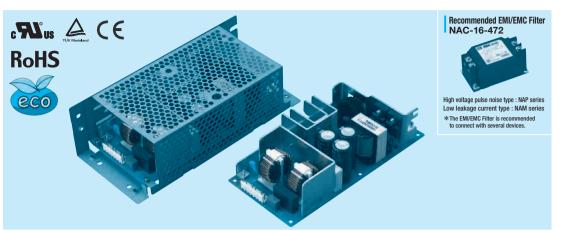
- Weight: 420g max (with chassis & cover: 650g max)
- *PCB material / thickness : CEM3 / 1.6mm [0.06]
- ※Optional chassis and cover material: Electric galvanizing steel board.
- *Dimensions in mm, []=inches

LGA240A

A 240 A







①Series name ②Single output (3)Output wattage

4 100/120V input

⑤Output voltage

Optional
 C :with Coating
 G :Low leakage current

H :with the function to be acceptable to output peak current (only 24V) J1:VH(J.S.T.)connector type S :with Chassis

SN:with Chassis & cover

T: Vertical terminal block Y: with Potentiometer

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.

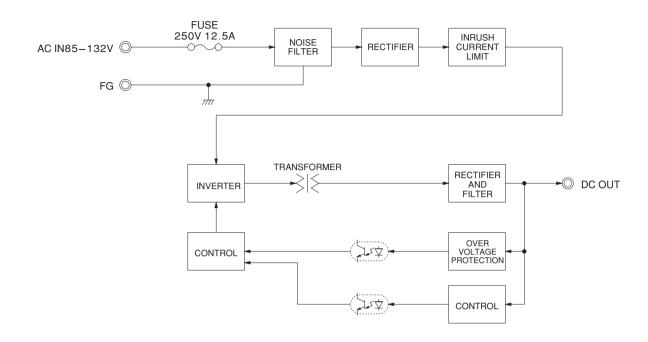
MODEL	LGA240A-24	LGA240A-24-H	
MAX OUTPUT WATTAGE[W]	240	240	
DC OUTPUT	24V 10A	24V 10 (Peak 12.5) A	

	MODEL		LGA240A-24	LGA240A-24-H				
	VOLTAGE[V]		AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)					
INPUT	CURRENT[A]	ACIN 100V	5.0typ (Io=100%)					
	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)					
INFOI	EFFICIENCY[%]	ACIN 100V	86.5typ (lo=100%)	86.5typ (Io=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)					
	VOLTAGE[V]		24	24				
	CURRENT[A] *3		10.0	10.0 (Peak 12.5)				
	LINE REGULATION[r		96max	96max				
	LOAD REGULATION	[mV]	150max	150max				
	RIPPLE[mVp-p]	0 to +40°C * 1	120max	240max				
	KIFFEE[IIIVP-P]	-10 - 0℃ *1	160max	320max				
	RIPPLE NOISE[mVp-p]	0 to +40°C * 1	150max	300max				
OUTPUT	KIFFEE NOISE[IIIVP-P]	-10 - 0℃ *1	180max	360max				
	TEMPERATURE REGULATION[mV]	0 to +40°C	240max	240max				
	TEMPERATURE REGULATION[IIV]	-10 to +40°C	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 cur					
PROTECTION	OVERVOLTAGE PROTECTION		27.60 - 35.00 27.60 - 35.00					
	OPERATING INDICATION		Not provided					
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND		-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
LittintoitinLitti	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis					
NOISE	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN					
REGULATIONS	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 (with chassis & cover : 880g max)					
	COOLING METHOD		Convection (Refer to Instruction Manual 3.2)					

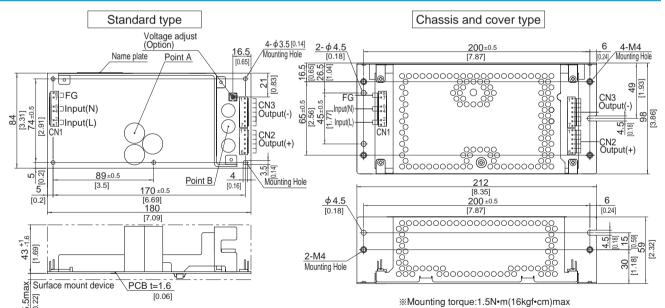
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with 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.



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.
- % 5 Mounting holes are existing.

	-	_		
I/O Connector		Mating connector	Т	erminal
ONIA	7-1565036-6	1-1123722-8	Chain	1123721-1
CN1			Loose	1318912-1
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1
			Loose	1318912-1
CN3	1-1123723-7	1-1123722-7	Chain	1123721-1
			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.

<PIN CONNECTION>

CN1			CN2			CN3	
Pin No.	Input		Pin No.	Output		Pin No.	Output
1, 2	AC(L)						
3							
4, 5	AC(N)		1 to 6	+V		1 to 7	-V
6							
7, 8	FG						

- *Keep drawing current per pin below 5A for CN1,CN2 and CN3.
- **Tolerance : ±1 [±0.04]
- $\%\mbox{Weight}$: 590g max (with chassis & cover : 880g max)
- %PCB material / thickness : CEM3 / 1.6mm [0.06]
- ※Optional chassis and cover material : Electric galvanizing steel board.
- **Dimensions in mm, []=inches