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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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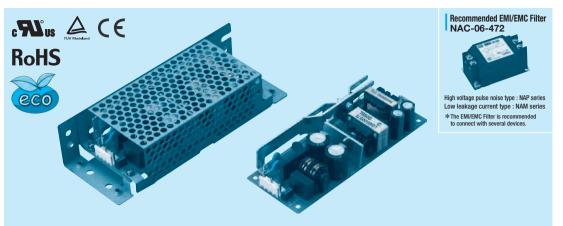






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LGA



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

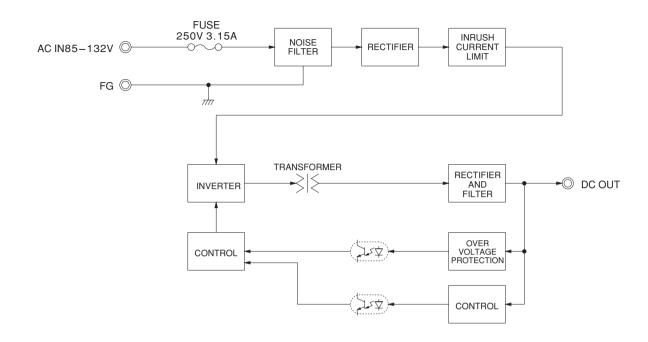
SPECIFICATIONS

	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)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer	to Instruction Ma	nual 1.1)						
INFOI	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%), (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	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		
	nirreciiivp-pj	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max		
	TPUT RIPPLE NOISE[mVp-p]	0 to +50°C *1/4	120max	120max	150max	150max	150max	300max	350max		
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
TEN	TEMPERATURE REGULATION(mV)	0 to +50°C *4	50max	50max	120max	150max	240max	240max	480max		
	TEMPERATORE REGULATION[IIV]	-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, Io=100%)							
	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		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 PROT		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		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
	OUTPUT-FG					V 50M Ω min (At					
	OPERATING TEMP.,HUMID.AND				U	efer to Instruction		00m (10,000feet)	max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000feet					
	VIBRATION					inutes each along	X, Y and Z axis	1			
	IMPACT	196.1m/s² (20G), 11ms, once each X, Y and Z axis									
NOISE	AGENCY APPROVAL					mplies with DEN-					
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-I					
OTHERS	CASE SIZE/WEIGHT					<h×d) 160g="" m<="" th=""><th>ax (with chassis</th><th>& cover : 320g m</th><th>ax)</th></h×d)>	ax (with chassis	& cover : 320g m	ax)		
	COOLING METHOD		Convection (Ref	er to Instruction I	Manual 3.2)						

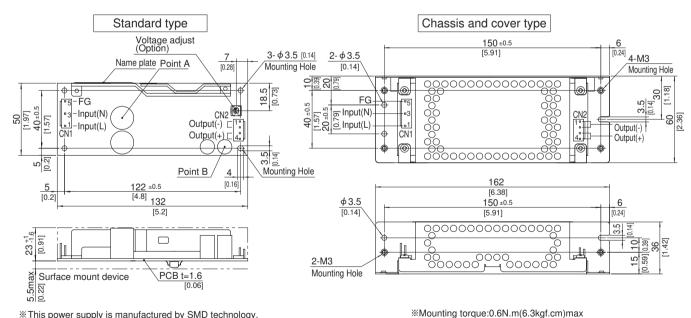
- *1 This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal.
 - Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C,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

 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.

LGA-2



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/O Connector		Mating connector	Т	erminal					
CN1 1-1123724-3	1 1100700 5	Chain	1123721-1						
	1-1123/24-3	1-1123722-5	Loose	1318912-1					
CNIO	1 1100700 4	4 4400700 4	Chain	1123721-1					
CN2	1-1123723-4	1-1123722-4	Loose	1318912-1					
	I/C CN1		I/O Connector Mating connector CN1 1-1123724-3 1-1123722-5	I/O Connector Mating connector T					

(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, 2	-V	
3	AC(N)				
4			3, 4	+V	
5	FG		, T		

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

**Tolerance : ±1 [±0.04]

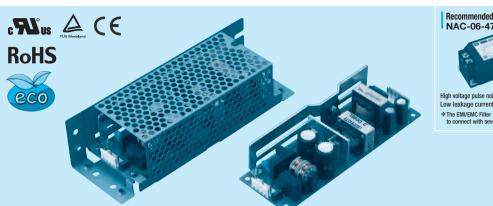
- Weight: 160g max (with chassis & cover: 320g max) %PCB material / thickness : CEM3 / 1.6mm [0.06]
- **X**Optional chassis and cover material: Electric galvanizing steel board.
- *Dimensions in mm, []=inches

LGA75A

A 75 A



LGA



Recommended EMI/EMC Filter NAC-06-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- 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

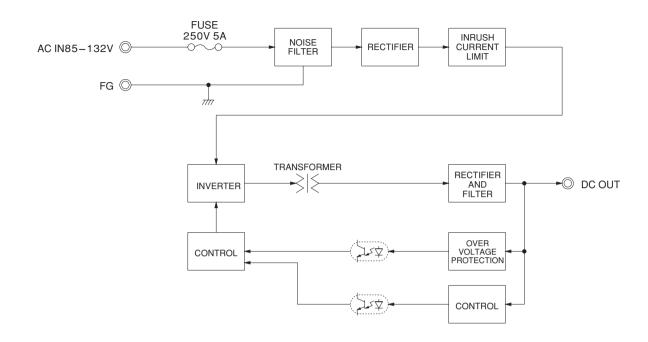
SPECIFICATIONS

	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%)	1.7typ (lo=100%	6)					
INPUT	FREQUENCY[Hz]		47 - 440 (Refer	to Instruction Ma	nual 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 (Io=100%)	
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=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[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	
		-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	MIPPLE 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							
	HOLD-UP TIME[ms]		20typ (ACIN 10	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		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically							
PROTECTION	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	
	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 Ω min (
	OUTPUT-FG					V 50M Ω min (At		<u> </u>		
	OPERATING TEMP.,HUMID.AND				• • •	fer to Instruction		00m (10,000feet)	max	
ENVIRONMENT	STORAGE TEMP.;HUMID.AND	ALTITUDE				000m (30,000feet				
-	VIBRATION					nutes each along	X, Y and Z axis			
	IMPACT), 11ms, once ea						
NOISE	AGENCY APPROVAL					mplies with DEN-				
REGULATIONS	CONDUCTED NOISE					11-B, EN55022-I				
OTHERS	CASE SIZE/WEIGHT	<u> </u>				×H×D) / 200g r	nax (with chassis	& cover : 410g n	nax)	
	COOLING METHOD		Convection (Ref	er to Instruction I	Manual 3.2)					

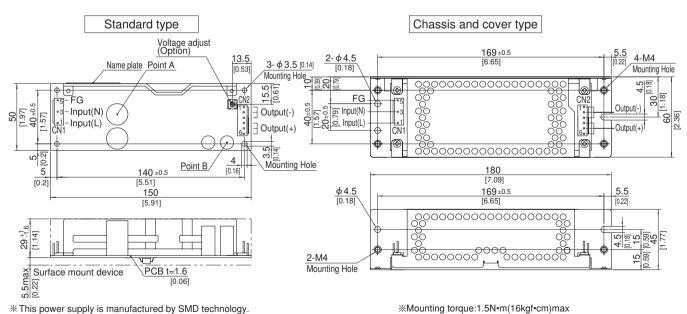
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with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

I/O	Connector	Mating connector	1	Terminal Terminal		
0.14	4 4400704 0	1-1123722-5	Chain	1123721-1		
CNI	CN1 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)						

<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.							

- - Weight: 200g max (with chassis & cover: 410g max) %PCB material / thickness : CEM3 / 1.6mm [0.06]
 - *Optional chassis and cover material: Electric galvanizing steel board.
 - **Dimensions in mm, []=inches

%Tolerance : ±1 [±0.04]

%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

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	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

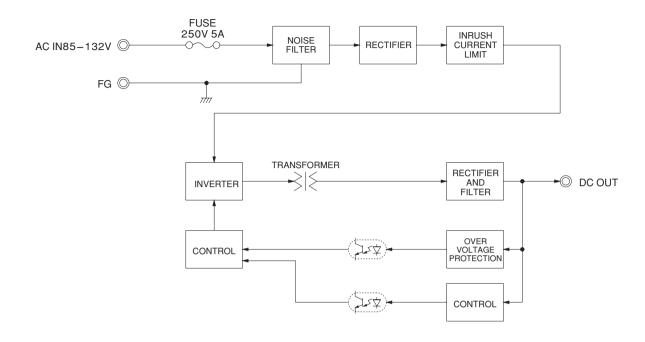
	MODEL		LGA100A-3R3-Y	LGA100A-5-Y	LGA100A-12	LGA100A-15	LGA100A-24	LGA100A-24-H	LGA100A-48		
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	ction Manual 1.1,	and 3.2 Derating)					
	CURRENT[A]	ACIN 100V	1.6typ (lo=100%)	2.4typ (lo=100°	%)						
INPUT	FREQUENCY[Hz]		47 - 440 (Refer	to Instruction Ma	anual 1.1)						
INFOI	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%	15typ (Io=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[mV]	20max	20max	48max	60max	96max	96max	192max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max		
	DIDDI E[ms\/m m]	0 to +50°C *1	80max	80max	120max	120max	120max	240max	150max		
	RIPPLE[mVp-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	PUT 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		
		-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	100V, Io=100%)							
	HOLD-UP TIME[ms]		20typ (ACIN 100	0V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63 4.50 - 5.50 Fixed ("Y"which can be adjusted the output is available as optional ±10%)						<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	ECTION	Works over 105	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 INDICA	TION	Not provided								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided	Not provided							
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff curre	nt = 10mA, DC5	$00V~50M\Omega~min~(R)$	At Room Temper	ature)			
ISOLATION	INPUT-FG					$00V~50M\Omega~min~(R)$					
	OUTPUT-FG					$V 50M\Omega$ min (At					
	OPERATING TEMP.,HUMID.AND	ALTITUDE				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				ach X, Y and Z a						
NOISE	AGENCY APPROVAL				•	mplies with DEN-					
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-E					
OTHERS	CASE SIZE/WEIGHT	•				H×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).

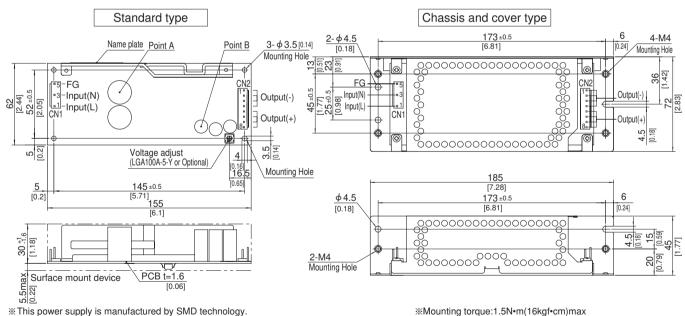
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

 *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/C) Connector	Mating connector	Т	erminal		
CNI	1 1100704 0	1-1123722-5	Chain	1123721-1		
CIVI	N1 1-1123724-3	1-1123/22-5	Loose	1318912-1		
CNIO	1-1123723-8	1-1123722-8	Chain	1123721-1		
CN2	1-1123723-8	1-1123/22-8	Loose	1318912-1		

(Mfr:Tyco Electronics AMP)

CNI

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

<PIN CONNECTION>

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

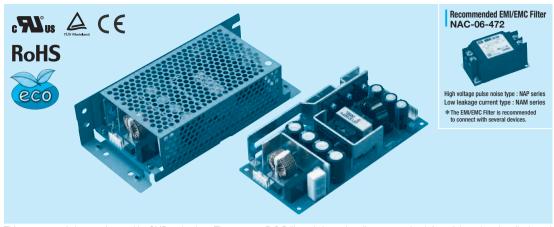
- **Tolerance : ±1 [±0.04]
- Weight: 300g max (with chassis & cover: 530g max)
- %PCB material / thickness : CEM3 / 1.6mm [0.06]
- *Optional chassis and cover material : Electric galvanizing steel board.
- %Dimensions in mm, []=inches

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

LGA150A

A 150





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

SPECIFICATIONS

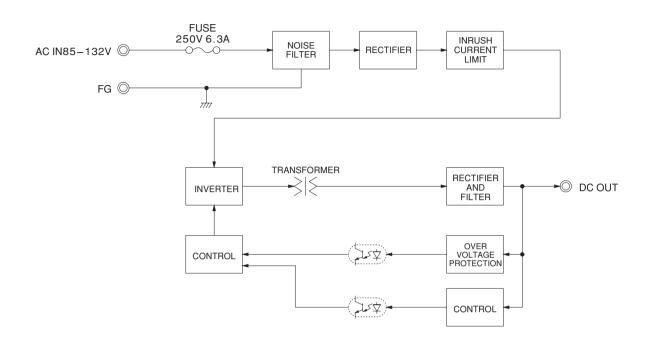
LGA

	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)							
INPUT	CURRENT[A]	ACIN 100V	2.6typ (lo=100%) 3.6typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)							
	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	
	MIPPLE[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	MIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max	
	TEMPERATURE REGULATION[mV]	0 to +40°C	50max	50max	120max	150max	240max	240max	480max	
	TEMPERATORE 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 PROT	ECTION	Works over 105	% of rating (work	s over 101% of	peak current at o	ption -H) and red	covers automatica	ılly	
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	
CIRCUIT AND	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 50MΩ 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							
LITTIONINEIT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s² (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×D) / 420g max	(with chassis &	cover : 650g max)	
	COOLING METHOD		Convection (Ref	fer to Instruction I	Manual 3.2)					

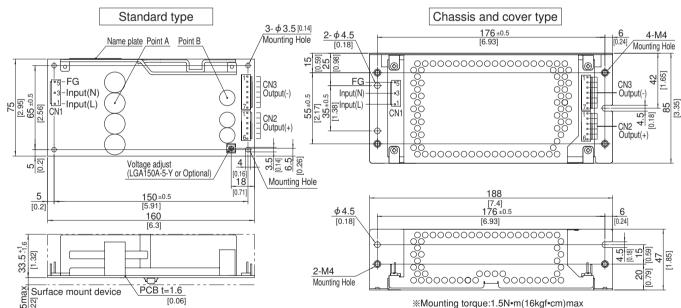
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with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

2

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.

- **X** Use the spacer of 8mm length or more.
- %4 Mounting holes are existing.

	-	_		
I/O Connector		Mating connector	Terminal	
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CIVI	1-1123/24-3		Loose	1318912-1
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1
			Loose	1318912-1
CNIO	1-1123723-7	1-1123722-7	Chain	1123721-1
CINO			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

Output

+V

CN3

Pin No.

1 to 7

Output

-V

**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

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	

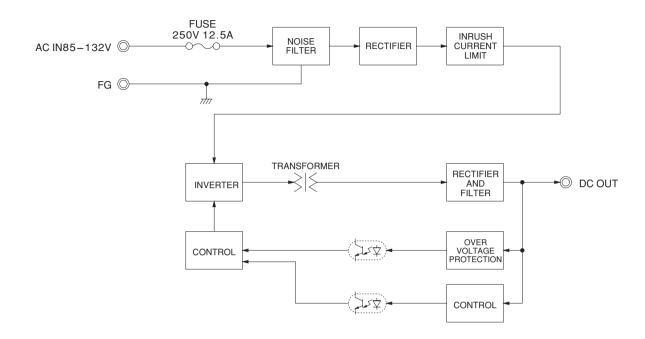
SPECIFICATIONS

	MODEL		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 (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)					
	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°C * 1	120max	240max				
	niPPLE[iiivp-p]	-10 - 0℃ *1	160max	320max				
	RIPPLE NOISE[mVp-p]	0 to +40°C * 1	150max	300max				
OUTPUT	MIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	180max	360max				
	TEMPERATURE REGULATION[mV]	0 to +40°C	240max	240max				
	TEMPERATURE REGULATION[IIIV]	-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	T RANGE[V]	Fixed ("Y"which can be adjusted the output is available as optional ±10%)					
	OUTPUT VOLTAGE SET	TING[V]	23.00 - 25.00	23.00 - 25.00				
	OVERCURRENT PROT	ECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically					
PROTECTION	OVERVOLTAGE PROTI	ECTION	27.60 - 35.00	27.60 - 35.00				
CIRCUIT AND	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°C, 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°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
	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					
SAFETY AND NOISE	AGENCY APPROVAL	LS	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, EN					
OTHERS	CASE SIZE/WEIGHT	'	84×48.5×180mm [3.31×1.91×7.09 inches] (W×H×D) / 590g max (with chassis & cover : 880g max)					
- TILLIO	COOLING METHOD		Convection (Refer to Instruction Manual 3.2)					

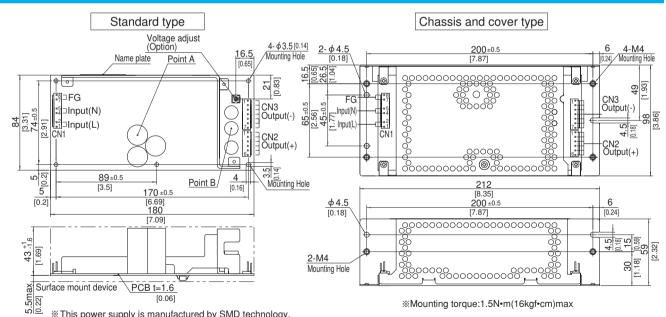
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with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

Mating connector	Terminal	
4 4400700 0	Chain	1123721-1
1-1123722-6	Loose	1318912-1
1-1123722-6	Chain	1123721-1
	Loose	1318912-1
4 4400700 7	Chain	1123721-1
1-1123722-7	Loose	1318912-1
	1-1123722-8	1-1123722-8

(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					

- $\ensuremath{\mbox{\ensuremath{\mbox{\times}}}}\xspace$ 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