

LGA50A

LG A 50 A -5 -□

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Recommended EMI/EMC Filter
NAC-06-472

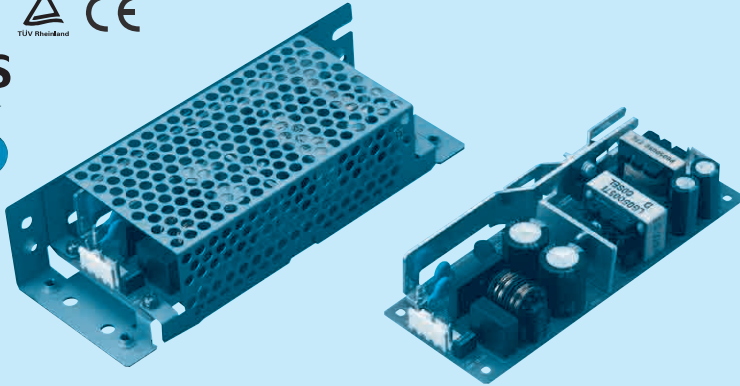


High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Single output
- ③ Output wattage
- ④ 100/120V input
- ⑤ Output voltage
- ⑥ 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



RoHS



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
INPUT	VOLTAGE[V]	AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)						
	CURRENT[A]	ACIN 100V 0.8typ (Io=100%)	1.3typ (Io=100%)					
	FREQUENCY[Hz]	47 - 440 (Refer to Instruction Manual 1.1)						
	EFFICIENCY[%]	ACIN 100V 74.0typ (Io=100%)	79.0typ (Io=100%)	82.0typ (Io=100%)	83.0typ (Io=100%)	85.0typ (Io=100%)	85.0typ (Io=100%)	85.0typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V 30typ (Io=100%), (At cold start), (Ta= 25°C)						
OUTPUT	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 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
		-10 - 0°C *1 140max	140max	160max	160max	160max	320max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1 120max	120max	150max	150max	150max	300max	350max
		-10 - 0°C *1 160max	160max	180max	180max	180max	360max	400max
	TEMPERATURE REGULATION[mV]	0 to +50°C *4 50max	50max	120max	150max	240max	240max	480max
		-10 to +50°C *4 60max	60max	150max	180max	290max	290max	600max
	DRIFT[mV]	*2 20max	20max	48max	60max	96max	96max	192max
PROTECTION CIRCUIT AND OTHERS	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	Fixed ("Y" which can be adjusted the output is available as optional ± 10%)					
	OUTPUT VOLTAGE SETTING[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 PROTECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically						
ISOLATION	OVERVOLTAGE PROTECTION	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						
	REMOTE SENSING	Not provided						
	REMOTE ON/OFF	Not provided						
ENVIRONMENT	INPUT-OUTPUT	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
SAFETY AND NOISE REGULATIONS	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						
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10 - 55Hz, 19.6m/s ² (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						
OTHERS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN						
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B						
	CASE SIZE/WEIGHT	50 x 28.5 x 132mm [1.97 x 1.12 x 5.2 inches] (W x H x D) / 160g max (with chassis & cover : 320g max)						
	COOLING METHOD	Convection (Refer to Instruction 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.

*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).
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.

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/O Connector		Mating connector	Terminal	
CN1	1-1123724-3	1-1123722-5	Chain	1123721-1
			Loose	1318912-1
CN2	1-1123723-4	1-1123722-4	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.

※Mounting torque:0.6N.m(6.3kgf.cm)max

<PIN CONNECTION>

Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	EG

Pin No.	Output
1, 2	-V
3, 4	+V

※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]

※Optional chassis and cover material : Electric galvanizing steel board.

※Dimensions in mm, []=inches

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.

- ① Series name
- ② Single output
- ③ Output wattage
- ④ 100/120V input
- ⑤ Output voltage
- ⑥ 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



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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
INPUT	VOLTAGE[V]	AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)						
	CURRENT[A]	ACIN 100V 1.3typ (Io=100%)	1.7typ (Io=100%)					
	FREQUENCY[Hz]	47 - 440 (Refer to Instruction Manual 1.1)						
	EFFICIENCY[%]	ACIN 100V 75.0typ (Io=100%)	79.0typ (Io=100%)	83.0typ (Io=100%)	84.0typ (Io=100%)	86.0typ (Io=100%)	86.0typ (Io=100%)	86.0typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V 30typ (Io=100%), (At cold start), (Ta= 25°C)						
	LEAKAGE CURRENT[ma]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	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	150max
		-10 - 0°C *1	140max	140max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	300max
		-10 - 0°C *1	160max	160max	180max	180max	180max	400max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	50max	120max	150max	240max	480max
		-10 to +50°C	60max	60max	150max	180max	290max	600max
	DRIFT[mV]	*2 20max	20max	48max	60max	96max	96max	192max
	START-UP TIME[ms]	200max (ACIN 100V, Io=100%)						
PROTECTION CIRCUIT AND OTHERS	HOLD-UP TIME[ms]	20typ (ACIN 100V, 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 SETTING[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 PROTECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically						
	OVERVOLTAGE PROTECTION	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						
ISOLATION	REMOTE SENSING	Not provided						
	REMOTE ON/OFF	Not provided						
	INPUT-OUTPUT	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ 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						
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN						
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B						
OTHERS	CASE SIZE/WEIGHT	50 x 34.5 x 150mm [1.97 x 1.36 x 5.91 inches] (W x H x D) / 200g max (with chassis & cover : 410g max)						
	COOLING METHOD	Convection (Refer to Instruction 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.

*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.

Block diagram



LGA

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	Terminal
CN1	1-1123724-3	1-1123722-5
		Chain
		Loose
CN2	1-1123723-6	1-1123722-6
		Chain
		Loose

(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.

※ Mounting torque: 1.5N·m (16kgf·cm) max

<PIN CONNECTION>

Pin No.	Input	Pin No.	Output
1	AC(L)	1 to 3	-V
2			
3	AC(N)	4 to 6	+V
4			
5	FG		

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

※ Tolerance : ± 1 [± 0.04]

※ 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

LGA100A

LG A 100 A -5 -

① ② ③ ④ ⑤ ⑥

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.

- ① Series name
- ② Single output
- ③ Output wattage
- ④ 100/120V input
- ⑤ Output voltage
- ⑥ 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



RoHS



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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
INPUT	VOLTAGE[V]	AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)						
	CURRENT[A]	ACIN 100V 1.6typ (Io=100%)	2.4typ (Io=100%)					
	FREQUENCY[Hz]	47 - 440 (Refer to Instruction Manual 1.1)						
	EFFICIENCY[%]	ACIN 100V 76.0typ (Io=100%)	80.0typ (Io=100%)	83.0typ (Io=100%)	84.0typ (Io=100%)	85.5typ (Io=100%)	85.5typ (Io=100%)	85.5typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V 15typ (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)						
OUTPUT	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
	RIPPLE[mVp-p]	0 to +50℃ *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℃ *1 120max	120max	150max	150max	150max	300max	350max
		-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
PROTECTION CIRCUIT AND OTHERS	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 available as optional ±10%)				
	OUTPUT VOLTAGE SETTING[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						
ISOLATION	OVERVOLTAGE PROTECTION	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						
	REMOTE SENSING	Not provided						
	REMOTE ON/OFF	Not provided						
ENVIRONMENT	INPUT-OUTPUT	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
SAFETY AND NOISE REGULATIONS	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max						
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10 - 55Hz, 19.6m/s ² (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						
OTHERS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN						
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B						
	CASE SIZE/WEIGHT	62 x 35.5 x 155mm [2.44 x 1.4 x 6.1 inches] (W x H x D) / 300g max (with chassis & cover : 530g max)						
	COOLING METHOD	Convection (Refer to Instruction 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℃, 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.

Block diagram



External view



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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	Terminal
CN1	1-1123724-3	Chain 1123721-1
		Loose 1318912-1
CN2	1-1123723-8	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	
Pin No.	Input	Pin No.	Output
1	AC(L)	1 to 4	-V
2	AC(N)	5 to 8	+V
3			
4	FG		
5			

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

※ Mounting torque: 1.5N·m (16kgf·cm) max

※ 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

LG A 150 A -5 -□

① ② ③ ④ ⑤ ⑥



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NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
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- ① Series name
 - ② Single output
 - ③ Output wattage
 - ④ 100/120V input
 - ⑤ Output voltage
 - ⑥ 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

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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
INPUT	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%)						
	FREQUENCY[Hz]	47 - 440 (Refer to Instruction Manual 1.1)						
	EFFICIENCY[%]	ACIN 100V 76.0typ (Io=100%) 82.0typ (Io=100%) 84.5typ (Io=100%) 85.5typ (Io=100%) 87.0typ (Io=100%) 87.0typ (Io=100%) 87.0typ (Io=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)						
OUTPUT	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℃ *1 80max -10 - 0℃ *1 140max	80max 140max	120max 160max	120max 160max	120max 160max	240max 320max	150max 200max
	RIPPLE NOISE[mVp-p]	0 to +40℃ *1 120max -10 - 0℃ *1 160max	120max 160max	150max 180max	150max 180max	150max 180max	300max 360max	350max 400max
	TEMPERATURE REGULATION[mV]	0 to +40℃ 50max -10 to +40℃ 60max	50max 60max	120max 150max	150max 180max	240max 290max	240max 290max	480max 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%)						
PROTECTION CIRCUIT AND OTHERS	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%)				
	OUTPUT VOLTAGE SETTING[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						
	OVERVOLTAGE PROTECTION	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						
ISOLATION	REMOTE SENSING	Not provided						
	REMOTE ON/OFF	Not provided						
	INPUT-OUTPUT	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
ENVIRONMENT	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ 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						
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
SAFETY AND NOISE REGULATIONS	VIBRATION	10 - 55Hz, 19.6m/s ² (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						
	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN						
OTHERS	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B						
	CASE SIZE/WEIGHT	75 x 39 x 160mm [2.95 x 1.54 x 6.3 inches] (W x H x D) / 420g max (with chassis & cover : 650g max)						
	COOLING METHOD	Convection (Refer to Instruction 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℃, 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.

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/O Connector	Mating connector	Terminal	
CN1	1-1123724-3	Chain	1123721-1
		Loose	1318912-1
CN2	1-1123723-6	Chain	1123721-1
		Loose	1318912-1
CN3	1-1123723-7	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	AC(L)	1 to 6	+V	1 to 7	-V
2					
3	AC(N)				
4					
5	FG				

※ Keep drawing current per pin below 5A for CN2, CN3.

※ Tolerance : ± 1 [± 0.04]

※ Weight : 420g max (with chassis & cover : 650g max)

※ PCB material / thickness : CEM3 / 1.6mm [0.06]

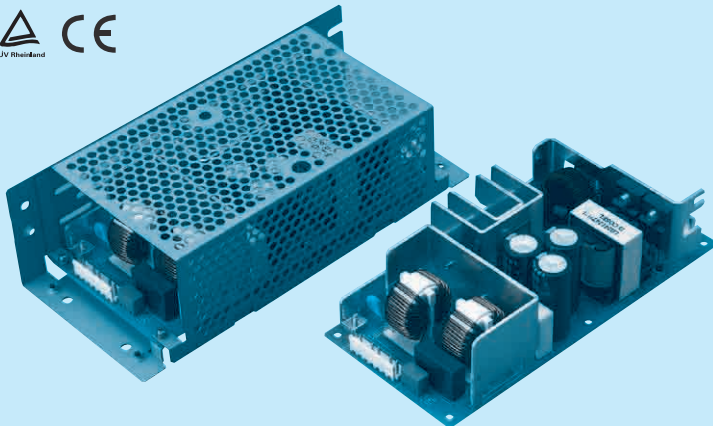
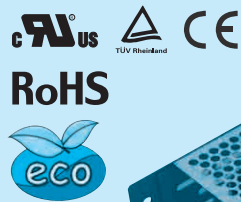
※ Optional chassis and cover material : Electric galvanizing
steel board.

※ Dimensions in mm, []=inches

LGA240A

LG A 240 A -5 -□

① ② ③ ④ ⑤ ⑥

Recommended EMI/EMC Filter
NAC-16-472

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

- ① Series name
② Single output
③ Output wattage
④ 100/120V input
⑤ Output voltage
⑥ 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	LGA240A-24-H
INPUT	VOLTAGE[V]	AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)	
	CURRENT[A]	ACIN 100V 5.0typ (Io=100%)	
	FREQUENCY[Hz]	47 - 440 (Refer to Instruction Manual 1.1)	
	EFFICIENCY[%]	ACIN 100V 86.5typ (Io=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)	
OUTPUT	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 -10 - 0℃ *1 160max	240max 320max
	RIPPLE NOISE[mVp-p]	0 to +40℃ *1 150max -10 - 0℃ *1 180max	300max 360max
	TEMPERATURE REGULATION[mV]	0 to +40℃ 240max -10 to +40℃ 290max	240max 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically	
	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 50MΩ min (At Room Temperature)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 19.6m/s ² (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 REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN	
	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)	

*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℃, 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.

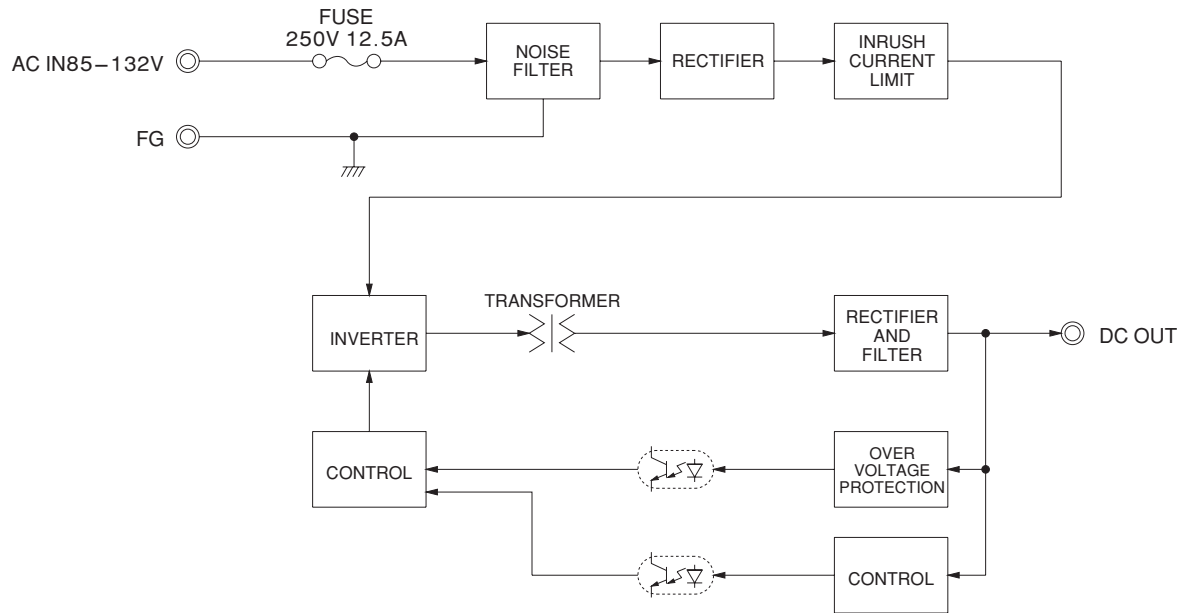
* Avoid prolonged use under over - load.

* Parallel operation with other model is not possible.

* Derating is required when operated with chassis and cover.

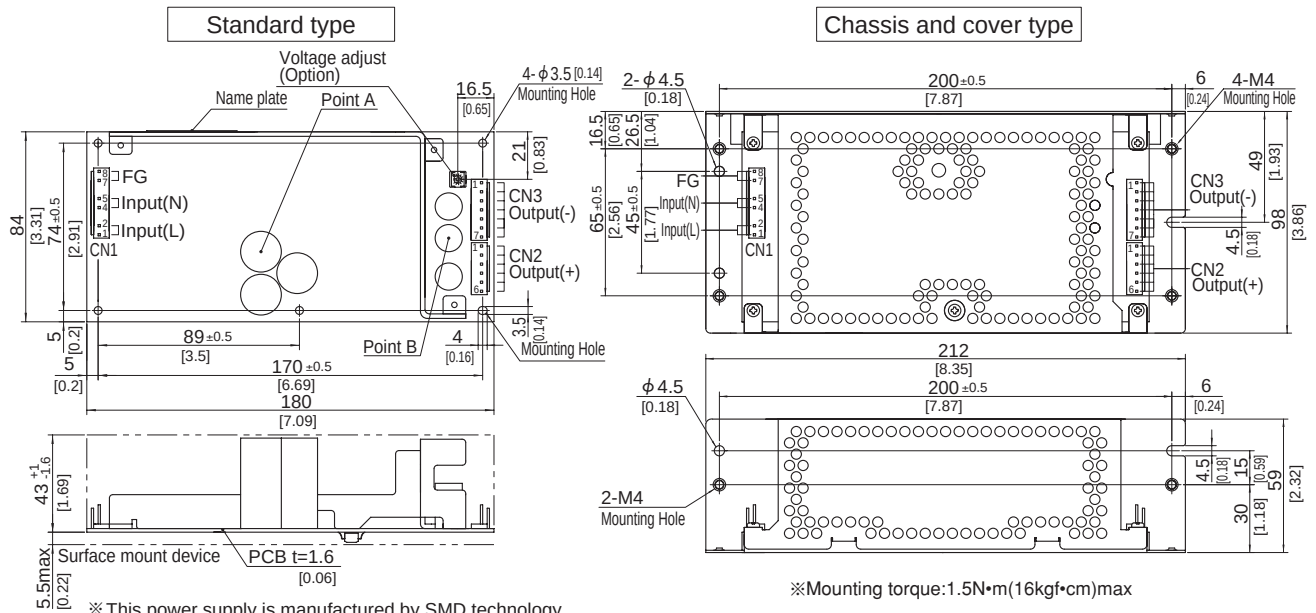
* A sound may occur from power supply at pulse loading.

Block diagram



LGA

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	Terminal
CN1	7-1565036-6	Chain 1123721-1
		Loose 1318912-1
CN2	1-1123723-6	Chain 1123721-1
		Loose 1318912-1
CN3	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.

※ Mounting torque: 1.5N·m (16kgf·cm) max

<PIN CONNECTION>

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

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

※ Tolerance : ±1 [%±0.04]

※ 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

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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