

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

SPECIFICATIONS

	MODEL		LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48		
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)	•			
	CURRENT[A]	ACIN 100V	0.8typ (lo=100%)	1.3typ (lo=100%	(6)						
	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)								
NPUT	EFFICIENCY[%]	ACIN 100V	74.0typ (lo=100%)	79.0typ (lo=100%)	82.0typ (lo=100%)	83.0typ (lo=100%)	85.0typ (lo=100%)	85.0typ (lo=100%)	85.0typ (lo=100%		
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%), (At cold start),	(Ta= 25℃)						
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)								
	VOLTAGE[V]		3.3	5	12	15	24	24	48		
	CURRENT[A]	*3	10.0	10.0	4.3	3.5	2.5	2.5 (Peak 3.2)	1.3		
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	192max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max		
		0 to +50°C 👬	80max	80max	120max	120max	120max	240max	150max		
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	320max	200max		
		0 to +50°C 👬	120max	120max	150max	150max	150max	300max	350max		
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
	TEMPERATURE REGULATION[mV]	0 to +50℃*4	50max	50max	120max	150max	240max	240max	480max		
	TEMPERATURE REGULATION[MV]	-10 to +50℃*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 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	2.85 - 3.63 Fixed ("Y"which can be adjusted the output is available as optional \pm 10%)								
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	4.90 - 5.30	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00		
	OVERCURRENT PROT	ECTION	Works over 105	% of rating (worl	ks over 101% of	peak current at c	ption -H) and re	covers automatica	ally		
ROTECTION	OVERVOLTAGE PROTE	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20		
IRCUIT AND	OPERATING INDICA	TION	Not provided								
THERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff curre	nt = 10mA, DC5	00V 50M $_{\Omega}$ min (At Room Temper	rature)			
SOLATION	INPUT-FG		AC2,000V 1min	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								
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20) - 90%RH (Non	condensing), 9,0	000m (30,000feet) max				
NVIRONMENT	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								
AFETY AND	AGENCY APPROVAL	LS	UL60950-1, C-L	JL (CSA60950-1)), EN60950-1 Co	mplies with DEN-	AN				
EGULATIONS	CONDUCTED NOISE		Complies with F	CC-B, VCCI-B,	CISPR-B, EN550	11-B, EN55022-	В				
TUEDO	CASE SIZE/WEIGHT		50×28.5×132r	nm [1.97×1.12>	< 5.2 inches] (W >	<h×d) 160g="" m<="" td=""><td>ax (with chassis</td><td>& cover : 320g ma</td><td>ax)</td></h×d)>	ax (with chassis	& cover : 320g ma	ax)		
OTHERS	COOLING METHOD			er to Instruction				Ŭ			

*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:

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

Derating is required when operated with chassis and cover. * A sound may occur from power supply at pulse loading.

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

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



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.

	0	0							
I/C	Connector	Mating connector	Т	erminal					
CNI	CN1 1-1123724-3	1-1123722-5	Chain	1123721-1					
CIVI		1-1123/22-5	Loose	1318912-1					
CNIO	1 1100700 4	1-1123722-4	Chain	1123721-1					
CINZ	1-1123723-4	1-1123/22-4	Loose	1318912-1					
(Mfr:Tyco Electronics AMP)									

%I/O Connector is Mfr Tyco Electronics AMP

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

AC(L) 1, 2 2 AC(N) 3

<PIN CONNECTION>

Input

FG

CN1

Pin No.

4

5

%Tolerance : ±1 [±0.04]
Weight : 160g max (with

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

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

CN2

Pin No.

3, 4

Output

-V

+V



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)						
NDUT	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 (lo=100%		
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%), (At cold start),	(Ta= 25℃)						
	LEAKAGE CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)								
	VOLTAGE[V]		3.3	5	12	15	24	24	48		
[CURRENT[A]	*3	15.0	15.0	6.3	5.0	3.2	3.2 (Peak 4.2)	1.6		
ſ	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	192max		
[LOAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max		
ſ	RIPPLE[mVp-p]	0 to +50°C * 1	80max	80max	120max	120max	120max	240max	150max		
	персе[шур-р]	-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		-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, lo=100%)							
[HOLD-UP TIME[ms]		20typ (ACIN 10	CIN 100V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63 Fixed ("Y"which can be adjusted the output is available as optional \pm 10%)								
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	4.90 - 5.30	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00		
	OVERCURRENT PROT	ECTION	Works over 105	% of rating (work	s over 101% of	peak current at o	ption -H) and rec	covers automatica	ally		
PROTECTION	OVERVOLTAGE PROT	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20		
CIRCUIT AND	OPERATING INDICA	TION	Not provided								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided								
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	DOV 50M $_{\Omega}$ min (A	At Room Temper	ature)			
SOLATION	INPUT-FG		AC2,000V 1min	,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minut	e, Cutoff current	= 25mA, DC500	V 50M Ω min (At	Room Temperat	ure)			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60°C, 20) - 90%RH (Non	condensing) (Re	efer to Instruction	Manual 3.2), 3,00	00m (10,000feet)	max		
NVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-			000m (30,000feet)					
	VIBRATION		10 - 55Hz, 19.6	Iz, 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	AGENCY APPROVA	LS	UL60950-1, C-L	JL (CSA60950-1)	, EN60950-1 Co	mplies with DEN-	AN				
REGULATIONS	CONDUCTED NOISE		Complies with F	CC-B, VCCI-B, (CISPR-B, EN550)11-B, EN55022-E	3				
OTHERS	CASE SIZE/WEIGHT	•	50 × 34.5 × 150r	nm [1.97 × 1.36 ×	(5.91 inches] (W	×H×D) / 200g n	nax (with chassis	& cover : 410g m	nax)		
UNERS	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. *1

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



External view



of the unit, so handle the unit with care.

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

because of the vibration and not to break down.

% Use the spacer of 8mm length or more.

%4 Mounting holes are existing

١.			ale chicaling.								
	I/C	Connector	Mating connector	Terminal							
	CNI	1-1123724-3	1-1123722-5	Chain	1123721-1						
	CINT	1-1123/24-3	1-1123/22-5	Loose	1318912-1						
	CNIO	1-1123723-6	1-1123722-6	Chain	1123721-1						
	CINZ	1-1123/23-0	1-1123/22-0	Loose	1318912-1						
	(Mfr:Tyco Electronics AMP)										

%I/O Connector is Mfr Tyco Electronics AMP

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

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

CN2

Pin No.

1 to 3

4 to 6

Output

-V

+V

<PIN CONNECTION>

Input

AC(L)

AC(N)

CN1

Pin No.

2

3

4

%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



*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

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

M	IODEL		LGA100A-3R3-Y	LGA100A-5-Y	LGA100A-12	LGA100A-15	LGA100A-24	LGA100A-24-H	LGA100A-48		
V	OLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)					
CI	URRENT[A]	ACIN 100V	1.6typ (lo=100%)	2.4typ (lo=100	%)						
FF	REQUENCY[Hz]		47 - 440 (Refer	to Instruction Ma	nual 1.1)						
INPUT EF	FFICIENCY[%]	ACIN 100V	76.0typ (Io=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%)		
IN	IRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%	, More than 10se	ec. to re-start)						
LE	LEAKAGE CURRENT[mA]		0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)								
VC	OLTAGE[V]		3.3	5	12	15	24	24	48		
CI	URRENT[A]	*3	20.0	20.0	8.5	7.0	4.3	4.3 (Peak 5.4)	2.1		
LI	INE REGULATION[r	mV]	20max	20max	48max	60max	96max	96max	192max		
LC	OAD REGULATION	[mV]	40max	40max	100max	120max	150max	150max	300max		
ы	IPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	240max	150max		
ni	IFFEE[IIIvp-b]	-10 - 0°C *1	140max	140max	160max	160max	160max	320max	200max		
BI	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	300max	350max		
ουτρυτ		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max		
TEN	MPERATURE REGULATION/mV1	0 to +50℃	50max	50max	120max	150max	240max	240max	480max		
		-10 to +50℃	60max	60max	150max	180max	290max	290max	600max		
DI	RIFT[mV]	*2	20max	20max	48max	60max	96max	96max	192max		
S	TART-UP TIME[ms]		200max (ACIN ·	100V, lo=100%)							
	OLD-UP TIME[ms]		21	htyp (ACIN 100V, Io=100%) 85 - 3.63 4.50 - 5.50 Fixed ("Y"which can be adjusted the output is available as optional ±10%)							
			2.85 - 3.63	4.50 - 5.50		, ,		ilable as optional	±10%)		
	UTPUT VOLTAGE SET		3.30 - 3.40	5.00 - 5.15	11.50 - 12.50	14.40 - 15.60	23.00 - 25.00	23.00 - 25.00	46.00 - 50.00		
	VERCURRENT PROT		Works over 105			peak current at o		1			
	VERVOLTAGE 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		
	PERATING INDICA	TION	Not provided								
- NI	EMOTE SENSING		Not provided								
	EMOTE ON/OFF		Not provided								
	IPUT-OUTPUT			,000V 1minute, Cutoff current = 10mA, DC500V 50M $_{\Omega}$ min (At Room Temperature)							
	IPUT-FG			V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	UTPUT-FG)0V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)							
	PERATING TEMP.,HUMID.AND		-		0	efer to Instruction I		00m (10,000feet)	max		
	TORAGE TEMP.,HUMID.AND	ALTITUDE		+75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max							
	IBRATION			19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
		-			ach X, Y and Z a						
NOISE -	GENCY APPROVAL	-	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN								
	ONDUCTED NOISE					11-B, EN55022-E			,		
OTHERS	ASE SIZE/WEIGHT					ΗχD) / 300g max	(with chassis &	cover : 530g max)		
C(OOLING METHOD		Convection (Ref	er to Instruction	Manual 3.2)						

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

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103). Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*3 Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage.

Refer to instruction Manual 5. In detail. Avoid prolonged use under over - load.

Parallel operation with other model is not possible.

Derating is required when operated with chassis and cover. A sound may occur from power supply at pulse loading.

LGA100A | CO\$EL

Block diagram



External view



of the unit, so handle the unit with care.

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

because of the vibration and not to break down.

XUse the spacer of 8mm length or more.

%4 Mounting holes are existing.

I/C	Connector	Mating connector	1	erminal					
0.14			Chain	1123721-1					
CN1	1-1123724-3		Loose	1318912-1					
CNIO	1 1100700 0	1_1100700_0	Chain	1123721-1					
CN2	1-1123723-8		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		5100						
*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

LGA-7



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

SPECIFICATIONS

	MODEL		LGA150A-3R3-Y	LGA150A-5-Y	LGA150A-12	LGA150A-15	LGA150A-24	LGA150A-24-H	LGA150A-48	
	VOLTAGE[V]		AC85 - 132 1 ϕ (Refer to Instruction Manual 1.1, and 3.2 Derating)							
I	CURRENT[A] ACIN 100V		2.6typ (lo=100%) 3.6typ (lo=100%)							
NIDUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)							
INPUT	EFFICIENCY[%]	ACIN 100V	76.0typ (lo=100%)	82.0typ (lo=100%)	84.5typ (Io=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	
	hippec[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		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max	
	TEMPERATURE REGULATION[mV]	0 to +40℃	50max	50max	120max	150max	240max	240max	480max	
		-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 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							
PROTECTION	OVERVOLTAGE PROT	ECTION	4.00 - 5.25	5.75 - 7.00	13.80 - 16.80	17.30 - 21.00	27.60 - 35.00	27.60 - 35.00	55.20 - 67.20	
CIRCUIT AND	OPERATING 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/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	AGENCY APPROVA	LS	UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN							
REGULATIONS	GULATIONS CONDUCTED NOISE Complies with FCC-B, VCCI-B, CISPR-B,						V55011-B, EN55022-B			
OTHERS	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)							
UTHERS	COOLING METHOD		Convection (Refer to Instruction 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.

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.

Befer to instruction Manual 5. In detail

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.

LGA150A | COȘEL

Block diagram





	I/O Connector		Mating connector	Terminal			
	CNI	1-1123724-3	1-1123722-5	Chain	1123721-1		
	CINT	1-1123/24-3		Loose	1318912-1		
	CN2		1-1123722-6	Chain	1123721-1		
		1-1123723-6		Loose	1318912-1		
	СN3		4 4 4 9 9 7 9 9 7	Chain	1123721-1		
		1-1123723-7	1-1123722-7	Loose	1318912-1		
	(MfwTues Electronics AMD)						

(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. Weight : 420g max (with chassis & cover : 650g max)
%PCB material / thickness : CEM3 / 1.6mm [0.06]

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

*Optional chassis and cover material : Electric galvanizing

steel board.

*Tolerance : ±1 [±0.04]

*Dimensions in mm, []=inches



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

SPECIFICATIONS

	MODEL		LGA240A-24	LGA240A-24-H			
	VOLTAGE[V]		AC85 - 132 1 $_{\odot}$ (Refer to Instruction Manual 1.1, and 3.2 Derating)				
			1 5.0typ (lo=100%)				
	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)				
JPIIT –			86.5typ (lo=100%) 86.5typ (lo=100%)				
			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	mV1	96max	96max			
_	LOAD REGULATION		150max	150max			
		0 to +40°C *1	120max	240max			
	RIPPLE[mVp-p]	-10 - 0°C *1	160max	320max			
E.		0 to +40°C * 1	150max	300max			
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	180max	360max			
E.		0 to +40℃	240max	240max			
	TEMPERATURE REGULATION[mV]	-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%)				
1	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed ("Y"which can be adjusted the output is available as optional $\pm 10\%$)				
	OUTPUT VOLTAGE SETTING[V]		23.00 - 25.00	23.00 - 25.00			
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically				
ROTECTION	OVERVOLTAGE PROTECTION		27.60 - 35.00	27.60 - 35.00			
IRCUIT AND	OPERATING INDICA	TION	Not provided				
THERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Not provided				
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
SOLATION	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				
	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				
JOISE	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies w				
EGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN				
THERS ⊢	CASE SIZE/WEIGHT		84×48.5×180mm [3.31×1.91×7.09 inches] (W×H×D) / 590g max (with chassis & cover : 880g max)				
UITERS	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. *1

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





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

I/C	Connector	Mating connector	Terminal			
CNI	7-1565036-6	1-1123722-8	Chain	1123721-1		
CNT	7-1505030-0	1-1123/22-8	Loose	1318912-1		
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1		
	1-1123723-6		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.

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	ļ						

*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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Cosel:

LGA75A-12-S LGA100A-24-HSN LGA75A-5-C LGA100A-24-SNJ1 LGA150A-12-GJ1 LGA75A-24-SNJ1 LGA50A-12-SY LGA150A-24-Y LGA50A-24-SNJ1 LGA240A-24-SNJ1Y LGA50A-12-G LGA100A-24-HJ1Y LGA240A-24-SJ1 LGA50A-5-SNJ1 LGA50A-5-Y LGA150A-48-C LGA75A-5-J1 LGA100A-5-J1Y LGA75A-24-S LGA50A-12-SN LGA150A-12-Y LGA50A-24-J1Y LGA100A-12-C N-LGA100 LGA100A-24-GJ1 LGA75A-5-SN LGA150A-24-HSNJ1 LGA150A-24-J1Y LGA150A-12-S LGA240A-24-HSNJ1 LGA150A-5-GY LGA150A-24-SNJ1 LGA50A-5 LGA100A-24-C LGA150A-5-SNY LGA240A-24-HSJ1 LGA50A-24-GJ1 LGA75A-24-CJ1 LGA150A-24-C LGA100A-24-Y LGA100A-24-HSNY LGA75A-12-GJ1 LGA150A-24-HJ1 LGA50A-3R3-Y LGA50A-5-S LGA100A-24-Y LGA240A-24-H LGA100A-12-Y LGA100A-12-GJ1 LGA50A-24-SJ1 LGA50A-5-G LGA100A-12-SNC S-LGA240 LGA75A-24-H LGA100A-5-SNY LGA50A-12-Y LGA50A-24-SN LGA100A-24-HSNJ1 LGA50A-12-C LGA150A-12-SN LGA50A-24-HJ1Y LGA100A-24-H N-LGA75 LGA50A-24-SN LGA100A-24-HSNJ1 LGA50A-12-C LGA150A-12-SN LGA50A-5-J1 LGA75A-12-SNJ1 LGA240A-24-C LGA150A-24-SNJ1Y LGA50A-12-C LGA150A-12-SN LGA50A-5-J1 LGA75A-12-SNJ1Y LGA240A-24-C LGA150A-15 LGA100A-24-HSNJ1 LGA50A-12-SNJ1 LGA75A-5-J1Y LGA150A-12-J1 LGA75A-5-CY LGA75A-12-SJ1 LGA75A-24-G LGA50A-24-H LGA150A-24-H LGA150A-12-SNJ1 LGA75A-12-SNJ1 LGA240A-24 LGA50A-24-HSN LGA100A-12-S LGA100A-5-SJ1Y LGA150A-12-SNJ1 LGA75A-5-J1Y LGA150A-12-J1 LGA75A-5-CY LGA75A-12-SJ1 LGA75A-24-G LGA50A-24-H LGA150A-12-SNJ1 LGA75A-5-J1Y LGA150A-12-SNJ1 LGA240A-24 LGA50A-24-HSN LGA100A-12-S LGA100A-5-SJ1Y LGA150A-12-SN LGA50A-5-J1 LGA75A-12-SNJ1 LGA240A-24 LGA50A-24-HSN LGA100A-12-S LGA100A-5-SJ1Y LGA150A-12-SN LGA75A-5-J1Y LGA150A-12-SNJ1 LGA240A-24 LGA50A-24-HSN LGA100A-12-S LGA100A-5-SJ1Y LGA150A-12-SN LGA75A-5-Y LGA75A-3R3-Y LGA150A-5-SY LGA75A-24-HSN LGA100A-5-SY LGA50A-24-HJ1 LGA75A-5-Y LGA75A-3R3-Y LGA150A-24-S LGA75A-24-HGJ1 LGA100A-5-SY LGA50A-24-HJ1