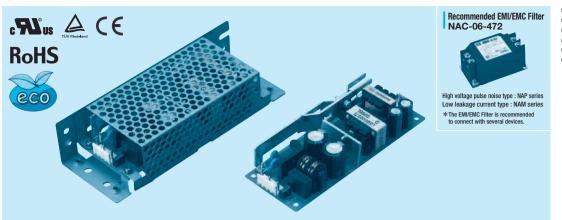
50

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.

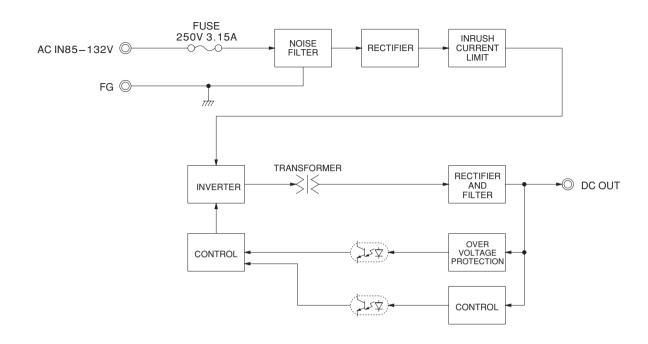
MODEL	LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48
MAX OUTPUT WATTAGE[W]	33	50	51.6	52.5	60	60	62.4
DC OUTPUT	3.3V 10A	5V 10A	12V 4.3A	15V 3.5A	24V 2.5A	24V 2.5 (Peak 3.2) A	48V 1.3A

SPECIFICATIONS

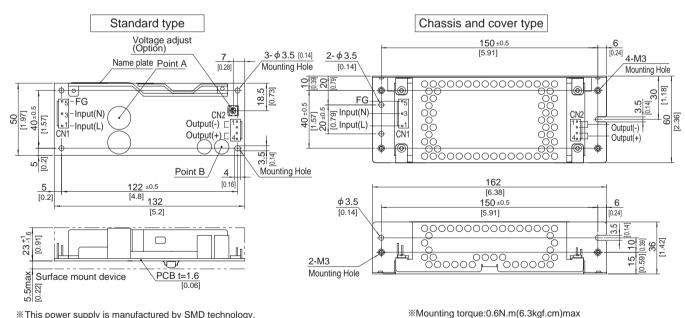
	MODEL		LGA50A-3R3-Y	LGA50A-5	LGA50A-12	LGA50A-15	LGA50A-24	LGA50A-24-H	LGA50A-48	
	VOLTAGE[V]		AC85 - 132 1 φ	(Refer to Instruc	tion Manual 1.1,	and 3.2 Derating)				
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)	1.3typ (lo=100%	%)					
FREQUENCY[Hz]			47 - 440 (Refer	47 - 440 (Refer to Instruction Manual 1.1)						
INPUT	EFFICIENCY[%]	ACIN 100V	74.0typ (lo=100%)	79.0typ (lo=100%)	82.0typ (Io=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°C)					
	LEAKAGE CURRENT[mA]		0.5max (ACIN 1	00V, 60Hz, lo=1	00%, According t	o IEC60950-1 an	d 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[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	
	VILLETE [IIIAh-h]	-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 KILL KOIGE[III 4 P-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	
<u> </u>	TEMPERATURE 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	0V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT	FRANGE[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 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	
CIRCUIT AND	OPERATING INDICA	TION	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					$00V$ $50M\Omega$ min (I				
	OUTPUT-FG					V 50M Ω min (At				
	OPERATING TEMP.,HUMID.AND	ALTITUDE		•	0, (efer 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				ach X, Y and Z a					
SAFETY AND NOISE	AGENCY APPROVAL	_S			.,	mplies with DEN-				
REGULATIONS	CONDUCTED NOISE					11-B, EN55022-E				
OTHERS	CASE SIZE/WEIGHT					<h×d) 160g="" m<="" td=""><td>ax (with chassis</td><td>& cover : 320g m</td><td>ax)</td></h×d)>	ax (with chassis	& cover : 320g m	ax)	
COOLING METHOR			Convection (Ref	fer 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.

 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/O Connector		Mating connector	Terminal					
CN1 1 1122724 2		1 1122722 5	Chain	1123721-1				
CN1	1-1123/24-3	1-1123722-5	Loose	1318912-1				
CNO	CN2 1-1123723-4 1-1123	4 4400700 4	Chain	1123721-1				
CINZ		1-1123722-4	Loose	1318912-1				
	CN1		CN1 1-1123724-3 1-1123722-5	CN1 1-1123724-3 1-1123722-5 Chain Loose Chain				

(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	5 FG		0, 1			

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

**Tolerance : ±1 [±0.04]

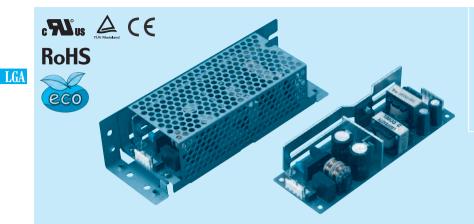
Weight: 160g max (with chassis & cover: 320g max) %PCB material / thickness : CEM3 / 1.6mm [0.06]

XOptional chassis and cover material: Electric galvanizing steel board.

*Dimensions in mm, []=inches

LGA75A

A 75 A §



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

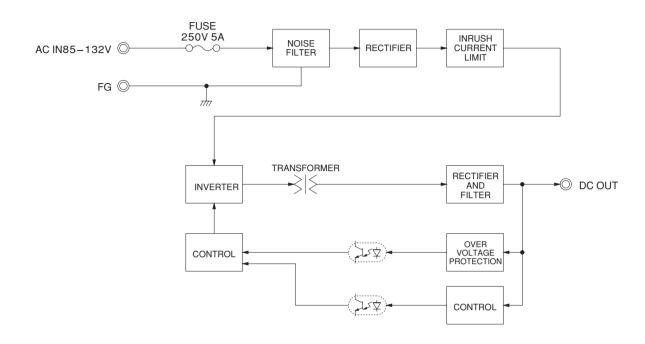
SPECIFICATIONS

	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 (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] TEMPERATURE REGULATION[mV]	0 to +50°C *1	120max	120max	150max	150max	150max	300max	350max	
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max	
		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	<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				s over 101% of	peak current at o	ption -H) and rec	covers automatica		
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				
LittiitOitiiiLitti	VIBRATION				<u> </u>	inutes each along	X, Y and Z axis	1		
	IMPACT		· ·), 11ms, once ea						
NOISE	AGENCY APPROVAL				·	mplies with DEN-				
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-I				
OTHERS	CASE SIZE/WEIGHT	•				×H×D) / 200g r	nax (with chassis	& cover : 410g n	nax)	
	COOLING METHOD			er to Instruction I	Manual 3.2)					

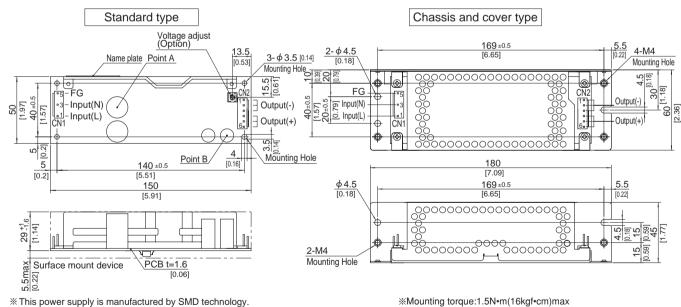
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with 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 holes are existing.								
I/O Connector		Mating connector	T	Terminal				
CN4 4 4422724 2 4 443		4 4400700 F	Chain	1123721-1				
CN1 1	1-1123724-3	1-1123722-5	Loose	1318912-1				
CNO	1 1100700 6	400700 0 4 4400700 0		1123721-1				
CINZ	1-1123723-6	1-1123/22-0	Loose	1318912-1				
	I/C CN1	I/O Connector CN1 1-1123724-3		I/O Connector Mating connector T CN1 1-1123724-3 1-1123722-5 Chain Loose CN2 1-1123723-6 1-1123722-6 Chain				

(Mfr:Tyco Electronics AMP)

<PIN CONNECTION>

		CN2				
Input		Pin No.	Output			
AC(L)						
		1 to 3	-V			
AC(N)						
		4 to 6	+V			
FG		. 10 0	1			
	AC(L)	Input AC(L) AC(N)	Input Pin No. 1 to 3 AC(N) 4 to 6			

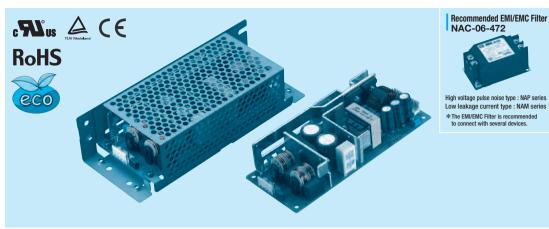
- *Keep drawing current per pin below 5A for CN2.
- **Tolerance : ±1 [±0.04]
- Weight: 200g max (with chassis & cover: 410g max)
- %PCB material / thickness : CEM3 / 1.6mm [0.06]
- ※Optional chassis and cover material : Electric galvanizing steel board.
- **Dimensions in mm, []=inches

%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





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

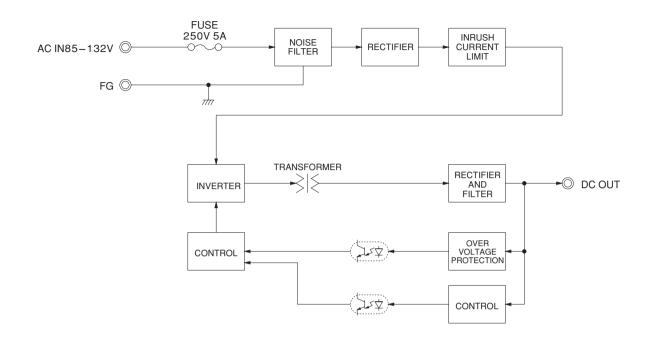
LGA

	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 (lo=100%)	2.4typ (lo=100°	%)					
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)							
INFOI	EFFICIENCY[%]	ACIN 100V	76.0typ (lo=100%)	80.0typ (Io=100%)	83.0typ (lo=100%)	84.0typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%	, More than 10se	ec. 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	
	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	KIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	360max	400max	
	TEMPERATURE REGULATION[mV]	0 to +50°C	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	OV, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	2.85 - 3.63	4.50 - 5.50	Fixed ("Y"which	can be adjusted	the output is ava	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	ECTION	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							
	INPUT-OUTPUT		AC2,000V 1min	ute, Cutoff curre	nt = 10mA, DC50	$00V$ 50M Ω min (A	At Room Temper	ature)		
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)							
	OUTPUT-FG					V 50M Ω min (At				
	OPERATING TEMP.,HUMID.AND	ALTITUDE				fer to Instruction		00m (10,000feet)	max	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000feet)				
LIVINORMENT	VIBRATION					nutes 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					∃xD) / 300g max	(with chassis &	cover : 530g max	:)	
	COOLING METHOD			er to Instruction	Manual 3.2)					

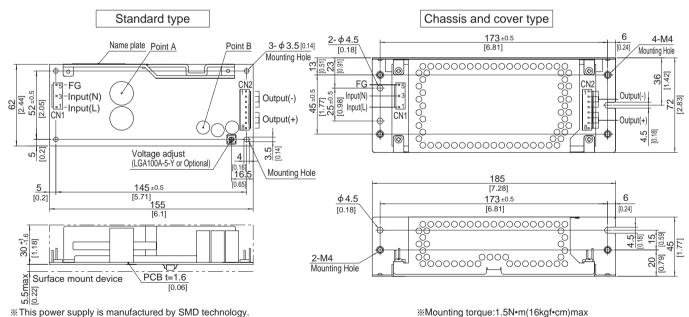
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with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

WUse the spacer of 8mm length or more.

*4 Mounting holes are existing.

	_	_				
I/O Connector		Mating connector	Terminal			
CNIA	1 1100701 0	1-1123722-5	Chain	1123721-1		
CNT	CN1 1-1123724-3	1-1123722-5	Loose	1318912-1		
CNO	1-1123723-8	1-1123722-8	Chain	1123721-1		
CNZ	1-1123723-6	1-1123722-8	Loose	1318912-1		

because of the vibration and not to break down.

(Mfr:Tyco Electronics AMP)

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	0.00			
•					

<PIN CONNECTION>

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

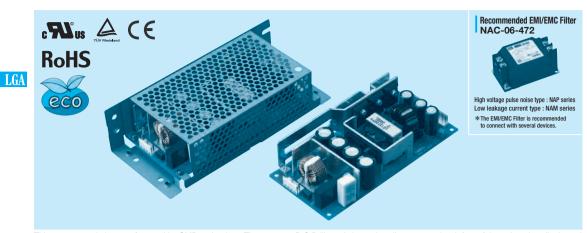
- **Tolerance : ±1 [±0.04]
- Weight: 300g max (with chassis & cover: 530g max)
- %PCB material / thickness : CEM3 / 1.6mm [0.06]
- **Optional chassis and cover material : Electric galvanizing steel board.
- %Dimensions in mm, []=inches

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

LGA150A

A 150 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

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

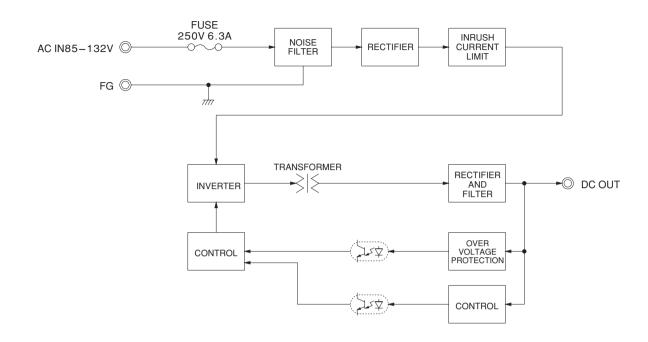
SPECIFICATIONS

	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 (lo=100%) 3.6typ (lo=100%)							
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)							
INFOI	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 CURREN	T[mA]	0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)							
	VOLTAGE[V]		3.3	5	12	15	24	24	48	
	CURRENT[A]	*3	30.0	30.0	12.5	10.0	6.3	6.3 (Peak 7.9)	3.2	
	LINE REGULATION[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	
	KIFFEE[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	Kii i EE 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	
	TEMI ENATONE NEODENTON[IIIV]	-10 to +40℃	60max	60max	150max	180max	290max	290max	600max	
	DRIFT[mV] *		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	·			
	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 PROT					peak current at o				
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		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		U. 1							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION				<u>.</u>	nutes each along	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				-	<u> </u>				
REGULATIONS	CONDUCTED NOISE)11-B, EN55022-E			<u> </u>	
OTHERS	CASE SIZE/WEIGHT			-		1 x D) / 420g max	(with chassis &	cover : 650g max)	
	COOLING METHOD		Convection (Ref	er to Instruction I	Manual 3.2)					

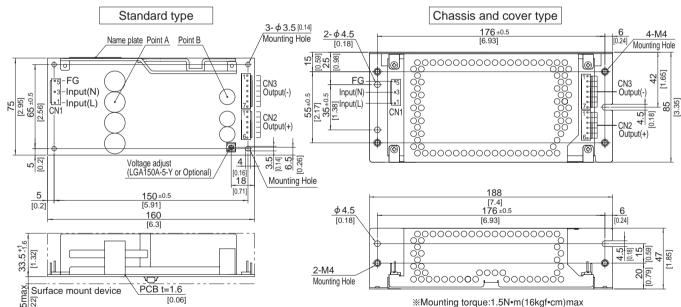
- This is the value that measured on measuring board with capacitor of 22 μ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with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



CN₁

%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			
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1		
CIVI	1-1123724-3	1-1123722-5	Loose	1318912-1		
0110	1-1123723-6	1-1123722-6	Chain	1123721-1		
CINZ			Loose	1318912-1		
CNO	4 4400700 7	1-1123722-7	Chain	1123721-1		
CN3	1-1123723-7	1-1123/22-/	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 No.	Input	Pin No.	Output	Pin No.	
1	AC(L)				Ī
2					ı
3	AC(N)	1 to 6	+V	1 to 7	l
4					ı
5	FG				ı

CN₂

- *Keep drawing current per pin below 5A for CN2,CN3.
- **Tolerance : ±1 [±0.04]

<PIN CONNECTION>

- 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.

CN₃

Output

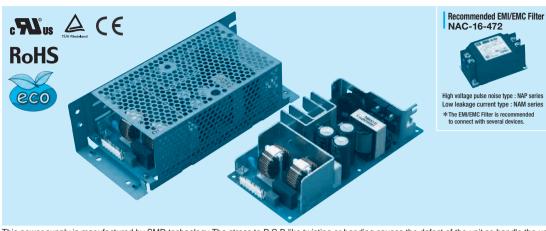
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*Dimensions in mm, []=inches

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		

SPECIFICATIONS

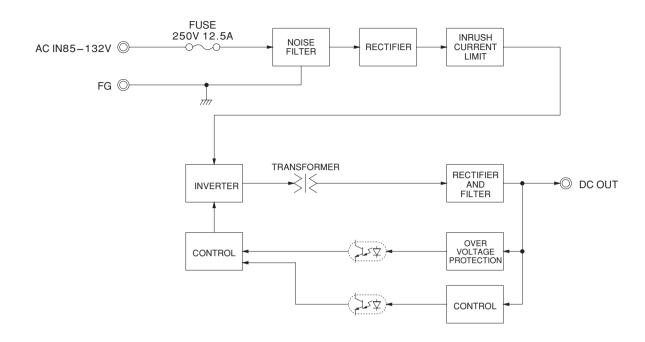
LGA

	MODEL		LGA240A-24	LGA240A-24-H				
	VOLTAGE[V]		AC85 - 132 1 φ (Refer to Instruction Manual 1.1, and 3.2 Derating)					
	CURRENT[A]	ACIN 100V	5.0typ (Io=100%)					
INPUT	FREQUENCY[Hz]		47 - 440 (Refer to Instruction Manual 1.1)					
INPUT	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[I	mV]	96max	96max				
	LOAD REGULATION	[mV]	150max	150max				
	RIPPLE[mVp-p]	0 to +40°C * 1	120max	240max				
	KIPPLE[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℃	240max	240max				
	TEMPERATURE REGULATION[IIV]	-10 to +40℃	290max	290max				
	DRIFT[mV]		96max	96max				
	START-UP TIME[ms]		200max (ACIN 100V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed ("Y"which can be adjusted the output is available as optional ±10%)					
	OUTPUT VOLTAGE SETTING[V		23.00 - 25.00	23.00 - 25.00				
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically					
PROTECTION	OVERVOLTAGE PROTE		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°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							
NOISE	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies w					
REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN					
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)					

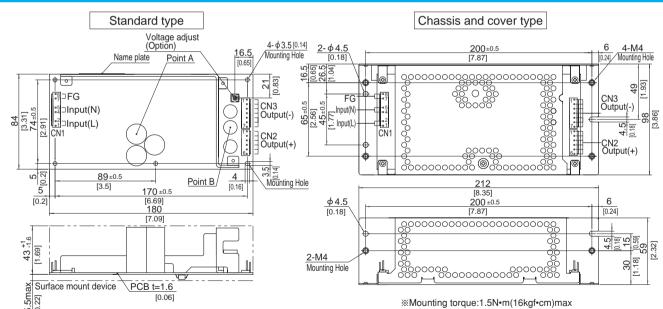
- This is the value that measured on measuring board with capacitor of $22\,\mu\,F$ at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C,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



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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.

	· ·	ŭ			
I/C) Connector	Mating connector	Terminal		
ONIA	CN1 7-1565036-6 1-1123722-8		Chain	1123721-1	
CIVI	7-1565036-6	1-1123722-8	Loose	1318912-1	
ONIO	1-1123723-6	1-1123722-6	Chain	1123721-1	
CN2			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]
- $\ensuremath{\mbox{\ensuremath{\mbox{\sc Weight}}}$: 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

Mouser Electronics

Authorized Distributor

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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-HSNJ1 LGA50A-5-GY LGA150A-24-SNJ1 LGA50A-5 LGA100A-24-Y LGA100A-24-HSNY LGA75A-12-GJ1 LGA150A-24-HJ1 LGA50A-3R3-Y LGA50A-5-SJ1Y LGA50A-12 LGA100A-24-S LGA240A-24-H LGA100A-12-Y LGA100A-24-SJ1 LGA50A-3R3-Y LGA50A-5-G LGA100A-12-SNC S-LGA240 LGA75A-24-H LGA100A-5-SNY LGA50A-12-Y LGA50A-24-SNJ1 LGA50A-5-G LGA100A-12-SNC S-LGA240 LGA75A-24-HJ1Y LGA100A-24-H N-LGA75 LGA50A-24-SNJ1Y LGA50A-12-C LGA150A-12-SN LGA50A-24-HJ1Y LGA100A-24-H N-LGA75 LGA50A-24-SNJ1Y LGA100A-3R3-Y LGA50A-12-SCJ1 LGA240A-24-T LGA50A-5-J1 LGA75A-12-SNJ1Y LGA240A-24-C LGA150A-15 LGA100A-24-H LGA100A-12-SNJ1 LGA75A-12-SNJ1 LGA75A-5-J1Y LGA50A-12-SNJ1 LGA75A-5-CY LGA75A-12-SJ1 LGA75A-24-G LGA50A-24-H LGA150A-24-H LGA150A-24-H LGA150A-12-SNJ1 LGA75A-24-SN LGA50A-12-SNJ1 LGA75A-24-SN LGA50A-12-SNJ1 LGA75A-24-SN LGA50A-12-SNJ1 LGA75A-24-SN LGA50A-24-H LGA150A-24-H LGA150A-12-SNJ1 LGA75A-24-SN LGA50A-12-SNJ1 LGA75A-24-SN LGA50A-24-H LGA150A-12-SNJ1 LGA75A-24-SN LGA50A-24-SN LGA50A-24-H LGA150A-12-SNJ1 LGA75A-24-SN LGA50A-24-SN LGA50A-24-SN LGA50A-24-SN LGA50A-24-H LGA150A-12-SNJ1 LGA75A-24-SN LGA50A-24-SN LGA50A-24-SN LGA50A-5-SNY LGA150A-5-SNY LGA150A-5-SY LGA100A-12-SJ1Y LGA100A-12-CJ1Y LGA75A-12-SNJ1 LGA75A-24-SN LGA50A-24-SN LGA50A-24-S LGA75A-24-HGJ1 LGA100A-12-SY LGA50A-24-HJ1



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- 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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