AC-DC Power Supplies Medical Type







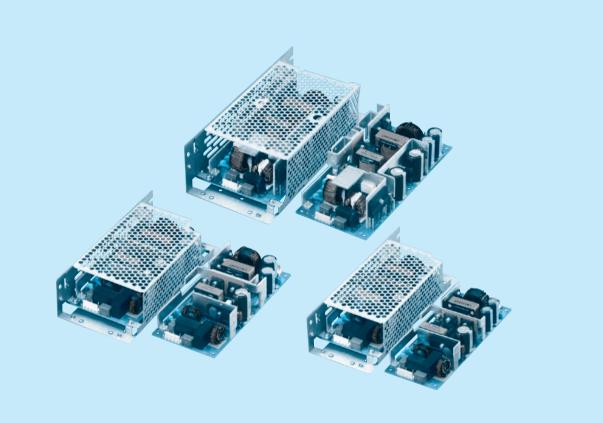




Safety



LMA-series



Feature

For medical electric equipment Internal dual fuses Low leakage current High power & peak power (option) Small and compact PCB construction Built-in inrush current, overcurrent and overvoltage protection circuits Harmonic attenuator (Complies with IEC61000-3-2 class A) Universal input (AC85-264V) Power factor correction

Safety agency approvals

ANSI/AAMI ES60601, EN60601-1 3rd

EMI

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B

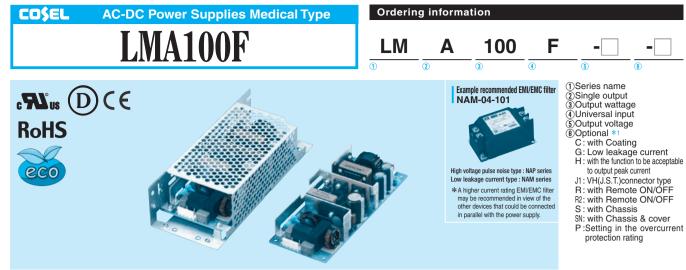
CE marking Low Voltage Directive

RoHS Directive

EMS Compliance : EN61204-3, EN61000-6-2

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 IEC60601-1-2 (2014), EN60601-1-2 (2015)

5-year warranty



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. *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.

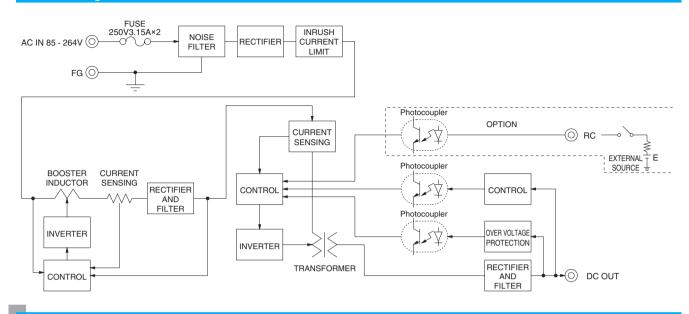
MODEL	LMA100F-24-Y	LMA100F-24-HY
MAX OUTPUT WATTAGE[W]	103.2	103.2 (206.4) *2
DC OUTPUT	24V 4.3A	24V 4.3A (8.6A) *2

SPECIFICATIONS

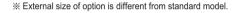
	MODEL		LMA100F-24-Y	LMA100F-24-HY	
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to "Derating", Instruction Manual	1 and 3)	
	ACIN 100V		1.4typ (lo=100%)		
INPUT	CURRENT[A]		0.7typ (lo=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
		ACIN 100V		84.0typ (lo=100%)	
	EFFICIENCY[%]	ACIN 200V	86.0typ (lo=100%)	86.0typ (lo=100%)	
			0.99typ (lo=100%)		
	POWER FACTOR	ACIN 200V			
		ACIN 200V	15typ (lo=100%) (At cold start) (Ta=25℃)		
	INRUSH CURRENT[A]	ACIN 200V	30 typ (10=100%) (At cold start) (Ta=25%)		
	LEAKAGE CURREN		0.10 / 0.25max (ACIN 100V / 240V 60Hz, lo=100%, Ac	coording to IEC60601-1)	
	VOLTAGE[V]	IIIIAJ	24	24	
			4.3		
	CURRENT[A]			4.3 (Peak 8.6) *2	
	LINE REGULATION		96max	96max	
	LOAD REGULATION			150max	
	RIPPLE[mVp-p] *3		120max	120max	
			160max	160max	
	RIPPLE NOISE[mVp-p]*3		150max	150max	
OUTPUT			180max	180max	
	TEMPERATURE REGULATION[mV]		240max	240max	
			290max	290max	
	DRIFT[mV]	*4	oomax	96max	
	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		19.20 to 27.50	19.20 to 27.50	
	OUTPUT VOLTAGE SETTING[V]		24.00 to 24.96	24.00 to 24.96	
	OVERCURRENT PROT	ECTION	Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically		
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	27.60 to 33.60	27.60 to 33.60	
CIRCUIT AND	OPERATING INDICA	TION	Not provided		
OTHERS	REMOTE SENSING		Not provided		
	REMOTE ON/OFF		Option (Required external power source.)		
	INPUT-OUTPUT-RC	*6	AC4,000V 1minute, Cutoff current = 10mA, DC500V 50	M Ω min (At Room Temperature) 2MOOP	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) 1MOOP		
ISULATION	OUTPUT·RC-FG	*6	AC500V 1minute, Cutoff current = 25mA, DC500V 50M	Ω min (At Room Temperature)	
	OUTPUT-RC	*6	AC100V 1minute, Cutoff current = 25mA, DC100V 10MΩ min (At Room Temperature)		
	OPERATING TEMP., HUMID. AND	ALTITUDE *5			
ENVIRONMENT	STORAGE TEMP., HUMID. AND				
ENVIRONMENT	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 APPROVALS (AT ON	IY AC input)			
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-E	3, EN55022-B	
REGULATIONS	HARMONIC ATTENU	JATOR	Complies with IEC61000-3-2 (Class A) *8	·	
	CASE SIZE/WEIGHT		62×33×155mm [2.44×1.30×6.10 inches] (W×H×D) / 290g max (with chassis & cover : 470g max)		
OTHERS	COOLING METHOD		Convection (Refer to "Derating", Instruction Manual 3) *		
*2 Peak loadii () means is damage	on is changed at option, refer to ng for 10sec. And Duty 40% max peak current. There is a possibi d when the specification is excee value that measured on measuri	c. lity that an in eded.	anual. *4 Drift is the change in DC output for an eight hour perior after a half-hour warm-up at 25°C, with the input voltage	d * To meet the specifications. Do not operate over-loaded condition.	
22 µ F at 1	50mm from output terminal.	-	*7 Please contact us about dynamic load and input response.		
Manager	by 20MHz oscilloscopo or Pipple	Nielee meter	(Equivalent * 9 Please contact up about apother class		

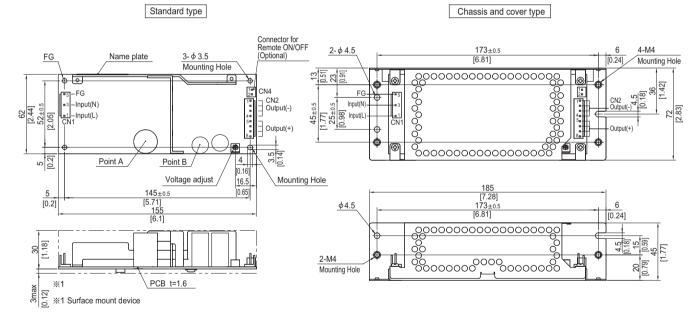
22 µ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). *7 Please contact us about dynamic load *8 Please contact us about another class.

Block diagram



External view





% 4 Mounting holes are existing.

% The back side of P.C.B. of the power supply is assembled some SMDs.

Be attention not to bump against the attached area by vibration.

% Use the spacer of 8mm length or more regarding insulation.

And do not use press-fitting bush.

* Point A, Point B are thermometry points.

I/O Connector		Mating connector	Terminal	
CN14	1-1123724-3	1-1123722-5	Chain	1123721-1
CINT	1-1123724-3	1-1123722-3	Loose	1318912-1
CNID	1-1123723-8	1-1123722-8	Chain	1123721-1
GNZ	1-1123723-0	1-1123722-0	Loose	1318912-1
(Mfr:Tyco Electronics)				

% I/O Connector is Mfr. Tyco Electronics

% Option:-J1:VH(J.S.T) connector type.

CONNECTION
CONNECTION

~

CN1 CN2				
Pin No.	Input		Pin No.	Output
1	AC(L)		1 to 4	-V
2			1 10 4	-v
3	AC(N)		5 to 8	+V
4			5 10 6	+v
5	FG			

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

% Tolerance : ±1 [±0.04]

Weight : 290g max (with chassis & cover : 470g max)
 PCB material : CEM3

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

* Dimensions in mm, []=inches

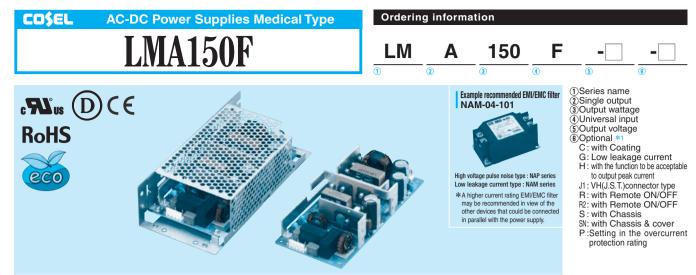
% Mounting torque (Mounting hole of chassis) :1.5N · m (16kgf · cm) max

Connector type

CN4 Option (Mfr:J.S.T)

PIN No.	Contents
1	RC(+)
2	RC(-)

Barrier strip type Model B2B-XH-A Mating Connector (Terminal) XHP-2 BXH-001T-P0.6 or SXH-001T-P0.6



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. *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	LMA150F-24-Y	LMA150F-24-HY
MAX OUTPUT WATTAGE[W]	151.2	151.2 (302.4) *2
DC OUTPUT	24V 6.3A	24V 6.3A (12.6A) *2

SPECIFICATIONS

	MODEL		LMA150F-24-Y	LMA150F-24-HY	
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to "Derating", Instruction Manual	1 and 3)	
		ACIN 100V	2.0typ (lo=100%)		
	CURRENT[A]		1.0typ (lo=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
		ACIN 100V	85.0typ (lo=100%)	85.0typ (lo=100%)	
INPUT	EFFICIENCY[%]		87.0typ (lo=100%)	87.0typ (lo=100%)	
			0.99typ (lo=100%)	07.00yp (10=10078)	
	POWER FACTOR	ACIN 100V	0.95typ (lo=100%)		
		ACIN 200V ACIN 100V	5typ (lo=100%) (At cold start) (Ta=25°C)		
	INRUSH CURRENT[A]	ACIN 100V ACIN 200V			
			0.10 / 0.25max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)		
	LEAKAGE CURREN	I[mA]			
	VOLTAGE[V]		24	24	
	CURRENT[A]	10	6.3	6.3 (Peak 12.6) *2	
	LINE REGULATION			96max	
	LOAD REGULATION		150max	150max	
	RIPPLE[mVp-p] *3		120max	120max	
			160max	160max	
	RIPPLE NOISE[mVp-p]*3		150max	150max	
OUTPUT		-10 - 0°C	180max	180max	
	TEMPERATURE REGULATION[mV]		240max	240max	
		-10 to +50℃	290max	290max	
	DRIFT[mV]	*4	96max	96max	
	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)		
ľ	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		19.20 to 27.50	19.20 to 27.50	
	OUTPUT VOLTAGE SETTING[V]		24.00 to 24.96	24.00 to 24.96	
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically		
PROTECTION	OVERVOLTAGE PROTEC	CTION[V]	27.60 to 33.60	27.60 to 33.60	
CIRCUIT AND	OPERATING INDICA	TION	Not provided		
OTHERS	REMOTE SENSING		Not provided		
	REMOTE ON/OFF		Option (Required external power source.)		
	INPUT-OUTPUT-RC	*6			
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) 1MOOP		
ISOLATION	OUTPUT·RC-FG	*6	AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)		
	OUTPUT-RC		AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (At Room Temperature)		
				"Derating", Instruction Manual 3) 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID.AND				
ENVIRONMENT	VIBRATION	ALINODE	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		IV AC input)	ANSI/AAMI ES60601-1, EN60601-1 3rd, Complies with IEC60601-1-2 4th Ed.		
NOISE	CONDUCTED NOISE	/	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B		
	HARMONIC ATTENL				
TIEGOLATIONS	CASE SIZE/WEIGHT		Complies with IEC61000-3-2 (Class A) *8 75×36.5×160mm [2.95×1.44×6.30 inches] (W×H×D) / 370g max (with chassis & cover : 600g max)		
OTHERS					
	COOLING METHOD		Convection (Refer to "Derating", Instruction Manual 3) *		
*2 Peak loadir () means is damaged	on is changed at option, refer to ng for 10sec. And Duty 40% max peak current. There is a possibi d when the specification is excee value that measured on measure	k. lity that an in eded.	after a half-hour warm-up at 25°C, with the input voltage		
22 µ F at 1	50mm from output terminal.		*7 Please contact us about dynamic load and input response.		

*8 Please contact us about another class.

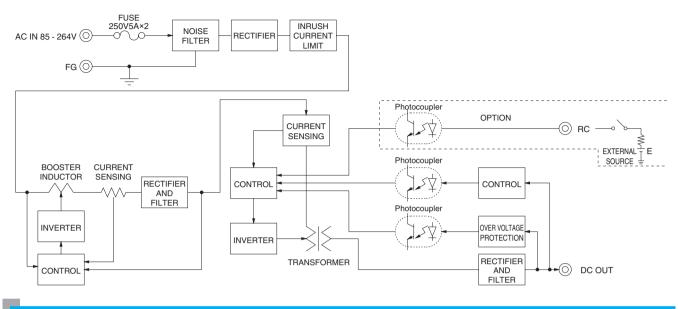
June 29, 2020

22 µ F at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).

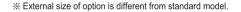
LMA150F | COŞEL

Chassis and cover type

Block diagram



External view



Standard type

<u>2-φ4.5</u> 176±0.5 6 4-M4 FG Name plate 3-φ3.5 Point A Point B [0.24] Mounting Hole [6.93] Mounting Hole 15 [0.59] 25 [0.98] 0 60 6 Ø ¢ 42 - FG FG 1° 5 ₽ CN3 Output(-) CN3 Output(-) -Input(N) Input(N) $\frac{75}{[2.95]}$ $\frac{65\pm0.5}{[2.6]}$ ŏŏ <u>-</u>Input(L) CN1 Input(L) 000 85 [3.35] CN1 55± 4.5 354 CN2 Output(+) à CN2 7 (*) 00 ¢ Ø Ø 3.5 0.14] 0.18] 5 4 Connector for RemoteON/OFF (optional) [0.16 Voltage adjust Mounting Hole 18 188 [7.4] 150±0.5 5 [0.2] [5.91] φ4.5 176±0.5 160 [6.3] [0.24] [6.93] റ്റ 4.5 [0.18] 15 [0.59] 47 [1.85] 33.5 1.32] 00 2-M4 Mounting Hole 0.79] 20 PCB t=1.6 3max ‰1 12 ò. %1 Surface mount device

% 4 Mounting holes are existing.

% The back side of P.C.B. of the power supply is assembled some

SMDs.

Be attention not to bump against the attached area by vibration.

% Use the spacer of 8mm length or more regarding insulation.

And do not use press-fitting bush.

% Point A, Point B are thermometry points.

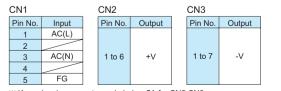
I/C	Connector	Mating connector	Terminal		
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1	
CIVI	1-1123724-3	1-1123722-5	Loose	1318912-1	
0.10	1-1123723-6	1-1123722-6	Chain	1123721-1	
CNZ	1-1123723-6	1-1123722-6	Loose	1318912-1	
010	4 4400700 7	1-1123722-7	Chain	1123721-1	
CN3	1-1123723-7	1-1123/22-7	Loose	1318912-1	

(Mfr:Tyco Electronics)

% I/O Connector is Mfr. Tyco Electronics

% Option:-J1:VH(J.S.T) connector type

<PIN CONNECTION>



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

% Tolerance : ±1 [±0.04]

* Weight : 370g max (with chassis & cover : 600g max)

* PCB material : CEM3

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

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

% Mounting torque (Mounting hole of chassis) :1.5N • m (16kgf • cm) max

Connector type

Contents

RC(+)

RC(-)

Barrier strip type

Model B2B-XH-A Mating Connector (Terminal) XHP-2

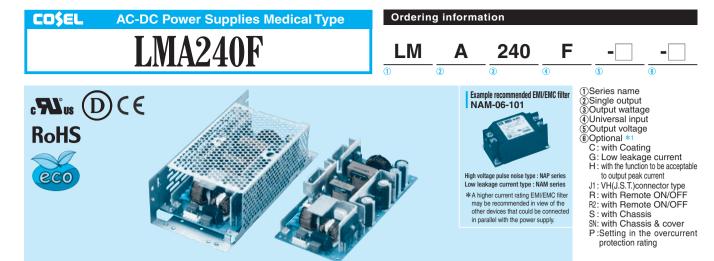
/ BXH-001T-P0.6

or SXH-001T-P0.6

CN4 Option (Mfr:J.S.T)

PIN No.

2



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. *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		LMA240F-24-Y	LMA240F-24-HY
MAX OUTPUT WATTAGE[W]		300	300 (480) *2
	Convection	24V 10A	24V 10A (20A) *2
DC OUTPUT	Forced air	24V 12.5A	24V 12.5A (20A) *2

SPECIFICATIONS

	VOLTAGE[V]				
			AC85 - 264 1 φ (Refer to "Derating", Instruction Manual	1 and 3)	
	ACIN 100V		3.9typ (lo=100%)		
	CURRENT[A]	<u> </u>	1.8typ (lo=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
		ACIN 100V	86.0typ (lo=100%)	86.0typ (lo=100%)	
INPUT	EFFICIENCY[%]	ACIN 200V		88.0typ (Io=100%)	
		ACIN 100V			
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)		
		ACIN 100V			
	INRUSH CURRENT[A]	ACIN 100V			
	LEAKAGE CURRENT[mA]		30 / 30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start) 0.15 / 0.40max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)		
	VOLTAGE[V]	ILINAJ	24	24	
	VOLIAGE[V]	Convection		10 (Peak 20) *2	
	CURRENT[A]				
		Forced air		12.5 (Peak 20) *2	
	LINE REGULATION		96max	96max	
	LOAD REGULATION		150max	150max	
	RIPPLE[mVp-p] *3		120max	120max	
			160max	160max	
Ουτρυτ	RIPPLE NOISE[mVp-p]*3		150max	150max	
			180max	180max	
	TEMPERATURE REGULATION[mV]		240max	240max	
-	10 to +50 C		290max	290max	
	DRIFT[mV] *4		96max	96max	
	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)		
	HOLD-UP TIME[ms]	*9	20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT		19.20 to 27.50	19.20 to 27.50	
	OUTPUT VOLTAGE SET	TING[V]	24.00 to 24.96	24.00 to 24.96	
	OVERCURRENT PROT	ECTION	Works over 105% of rating (works over 101% of peak c	urrent at option -H) and recovers automatically	
PROTECTION	OVERVOLTAGE PROTEC	CTION[V]	27.60 to 33.60	27.60 to 33.60	
CIRCUIT AND	OPERATING INDICA	TION	Not provided		
OTHERS	REMOTE SENSING		Not provided		
	REMOTE ON/OFF		Option (Required external power source.)		
	INPUT-OUTPUT-RC	*6	AC4,000V 1minute, Cutoff current = 10mA, DC500V 50	$M\Omega$ min (At Room Temperature) 2MOOP	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50		
ISOLATION	OUTPUT·RC-FG	*6			
	OUTPUT-RC	*6			
	OPERATING TEMP., HUMID.AND	ALTITUDE *5			
	STORAGE TEMP. HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max		
ENVIRONMENT	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		IY AC input)	ANSI/AAMI ES60601-1, EN60601-1 3rd, Complies with	IEC60601-1-2 4th Ed	
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-I		
	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A) *8		
	CASE SIZE/WEIGHT		84×46×180mm [3.31×1.81×7.09 inches] (W×H×D) / 540g max (with chassis & cover : 860g max)		
OTHERS	COOLING METHOD		Convection / Forced air (Refer to "Derating", Instruction		
 *2 Peak load () means is damage *3 This is the 	on is changed at option, refer to l ing for 10sec. And Duty 40% max peak current. There is a possibil d when the specification is excee value that measured on measuri 50mm from output terminal.	lity that an in eded.	*4 Drift is the change in DC output for an eight hour period		

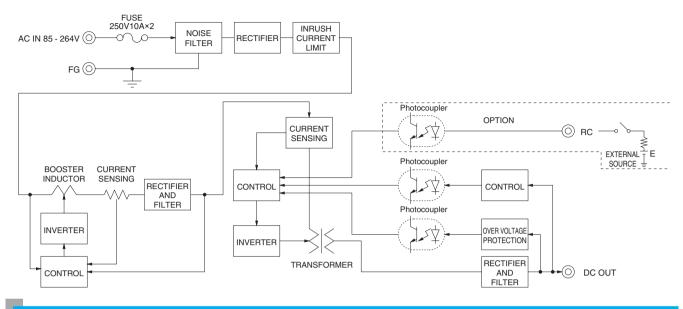
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent *7 Please contact us about dynamic load and input response.

June 29, 2020

LMA240F | CO\$EL

Chassis and cover type

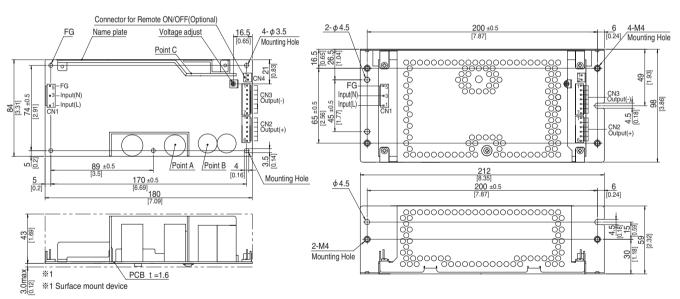
Block diagram



External view

% External size of option is different from standard model.

Standard type



% 5 Mounting holes are existing.

% The back side of P.C.B. of the power supply is assembled some

SMDs.

Be attention not to bump against the attached area by vibration. % Use the spacer of 8mm length or more regarding insulation.

And do not use press-fitting bush.

% Point A, Point B, Point C are thermometry points.

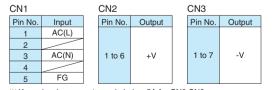
I/C	Connector	Mating connector	Terminal	
CNI	1-1123724-3	1-1123722-5	Chain	1123721-1
CINT	1-1123724-3	1-1123/22-5	Loose	1318912-1
CNIO	1-1123723-6	1-1123722-6	Chain	1123721-1
CINZ	1-1123723-0	1-1123/22-0	Loose	1318912-1
0.10	4 4400700 7	1-1123722-7	Chain	1123721-1
CN3	1-1123723-7	1-1123/22-7	Loose	1318912-1
(Mfr:Tuco Electronics)				

(Mfr:Tyco Electronics)

% I/O Connector is Mfr. Tyco Electronics

% Option:-J1:VH(J.S.T) connector type.

<PIN CONNECTION>



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

- % Tolerance : ±1 [±0.04]
- % Weight : 540g max (with chassis & cover : 860g max)

* PCB material : CEM3

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

% Dimensions in mm, []=inches

% Mounting torque (Mounting hole of chassis) :1.5N · m (16kgf · cm) max

June 29, 2020

CN4 Option (Mfr:J.S.T) PIN No. Contents

Connector type

T IIN INO.	Contenta							
1	RC(+)							
2	RC(-)							
Barrier strip type								

Model B2B-XH-A

Mating Connector (Terminal) XHP-2 (BXH-001T-P0.6 or SXH-001T-P0.6

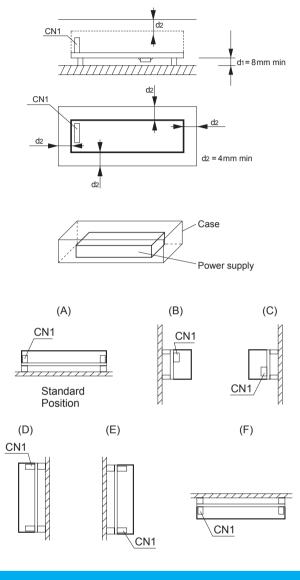
COŞEL | LMA-series

Assembling and Installation Method

Installation method

- 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.
- In case of metal chassis, keep the distance between d1 & d2 for to insulate between lead of component and metal chassis, use the spacer of 8mm or more between d1. If it is less than d1 & d2, insert the insulation sheet between power supply and metal chassis.

- There is a possibility that it is not possible to cool enough when the power supply is used by the sealing up space as showing in right figure.Please use it after confi rming the temperature of point A and point B of Instruction Manual 3.
- (F) mounting is not possible when unit is with case cover, but if need to operate unit by (F) positioning with case cover, temperature / load derating is necessary. For more details, please contact our sales or engineering departments.



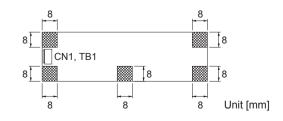
Mounting screw

The mounting screw should be M3. The hatched area shows the allowance of metal parts for mounting.

LMA100F, LMA150F



LMA240F

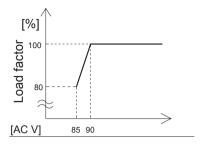


If metallic fittings are used on the component side of the board, ensure there is no contact with surface mounted components.
 This product uses SMD technology. Please avoid the PCB installation method which includes the twisting stress or the bending stress.
 *Recommendation to electrically connect FG to metal chassis for reducing noise.

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Derating





LMA100F Ambient temperature derating curve (Reference value)

LMA150F Ambient temperature derating curve (Reference value)

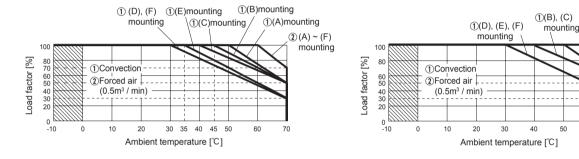
①(A)mounting

70

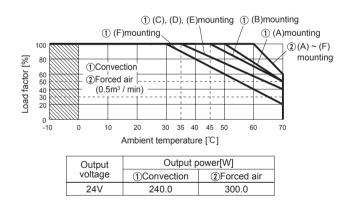
60

(2) (A) ~ (F)

mounting



LMA240F Ambient temperature derating curve (Reference value)



The operative ambient temperature is different by with / without chassis cover or mounting position.

Note: In the hatched area, the specification of Ripple, Ripple Noise is different from other area.

Make sure the temperature at point A and point B is less than the temperatures shown in Instruction Manual 3.

The ambient temperature should be measured 5 to 10 cm away from the power supply so that it won't be influenced by the heat from the power supply. Please consult us for more details.

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Instruction Manual

◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual

https://en.cosel.co.jp/product/powersupply/LMA/ Before using our product https://en.cosel.co.jp/technical/caution/index.html



Basic Characteristics Data

Model	Circuit method Switching frequency [kHz]	Input current *1 [A]	Inrush current protection	PCB/Pattern		Series/Parallel operation availability			
				Material	Single sided	Double sided	Series operation	Parallel operation	
LMA100F	Active filter	60	1.4	Thermistor	CEM-3		Yes	Yes	No
	Forward converter	130							
LMA150F	Active filter	60	2.0	Thermistor	CEM-3		Yes	Yes	No
	Forward converter	130							
LMA240F	Active filter	60	3.9	SCR	CEM-3		Yes	Yes	No
	Forward converter	130							

*1 The value of input current is at ACIN 100V and rated load.

June 29, 2020

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LMA100F-24-HY LMA240F-24-HY LMA150F-24-HY LMA100F-24-Y LMA150F-24-Y