#### **AC-DC Power Supplies Medical type**



















OVP



# **LMA-series**

LMA



#### 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

### **■** 5-year warranty

### CE marking

#### **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



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COSEL

**AC-DC Power Supplies Medical type** 

Ordering information

100 LM



**c¶**°us (D) ∈ € **RoHS** 



Recommended EMI/EMC Filter NAC-04-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series

\*The EMI/EMC Filter is recommended to connect with several devices.

Ι ΜΔ100F-24-HY

① Series name ② Single output ③ Output wattage ④ Universal input

- (4) Universal input
  (5) Output voltage
  (6) Optional \*1
  C: with Coating
  G: Low leakage current
  H: with the function to be acceptable
  to output peak current
- It is output peak current

  It : VH(J.S.T.)connector type

  R: with Remote ON/OFF

  R2: with Remote ON/OFF

  S: with Chassis

  SN: with Chassis & cover

- 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.

Ι ΜΔ100F-24-Y

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**

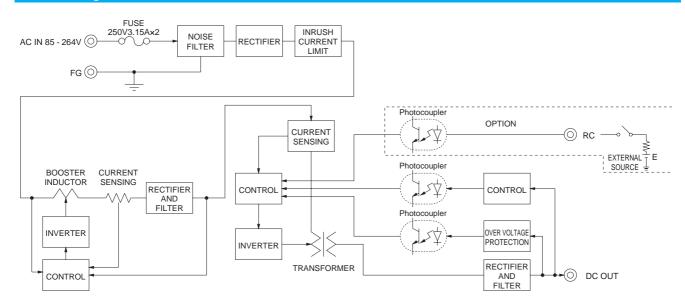
	MODEL		LMA100F-24-Y	LMA100F-24-HY		
_	VOLTAGE[V]		AC85 - 264 1 φ			
	CURRENTIAI	ACIN 100V	1.4typ (lo=100%)			
	ACIN 200V		0.7typ (lo=100%)			
	FREQUENCY[Hz]		50 / 60 (47 - 63)			
	EEEIOJENIOV(9/1	ACIN 100V	84.0typ (Io=100%)	84.0typ (Io=100%)		
INPUT	EFFICIENCY[%]	ACIN 200V	86.0typ (Io=100%)	86.0typ (Io=100%)		
	ACIN 100V		0.99typ (lo=100%)			
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)			
	INDUCUI CURRENTIAL	ACIN 100V	15typ (lo=100%) (At cold start) (Ta=25°C)			
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold start) (Ta=25°C)			
	LEAKAGE CURREN	T[mA]	0.10 / 0.25max (ACIN 100V / 240V 60Hz, lo=100%, Acc	ording to IEC60601-1)		
	VOLTAGE[V]		24	24		
	CURRENT[A]		4.3	4.3 (Peak 8.6) *2		
	LINE REGULATION	mV] *7	96max	96max		
	LOAD REGULATION		150max	150max		
			120max	120max		
	RIPPLE[mVp-p] *3	-10 - 0℃	160max	160max		
	DIDDLE NOIGEL V	0 to +50℃	150max	150max		
OUTPUT	RIPPLE NOISE[mVp-p]*3	-10 - 0℃	180max	180max		
	TEMPERATURE REQUILATIONS AND	0 to +50℃	240max	240max		
	TEMPERATURE REGULATION[mV]	-10 to +50°C	290max	290max		
	DRIFT[mV]	*4	96max	96max		
	START-UP TIME[ms]		350typ (ACIN 100V, Io=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		
	<b>OUTPUT VOLTAGE SET</b>	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 current at option -H) and recovers automatically			
<b>PROTECTION</b>	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 50N	$1\Omega$ min (At Room Temperature)		
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			
ISOLATION	OUTPUT-RC-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature)			
	OUTPUT-RC		AC100V 1minute, Cutoff current = 25mA, DC100V 10MΩ min (At Room Temperature)			
	OPERATING TEMP., HUMID. AND	ALTITUDE *5	-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max			
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE				
LIVIKONWENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis			
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis			
SAFETY AND			ANSI/AAMI ES60601-1, EN60601-1 3rd			
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B,	EN55022-B		
REGULATIONS			Complies with IEC61000-3-2 (Class A) *8			
OTHERS	CASE SIZE/WEIGHT		62×33×155mm [2.44×1.30×6.10 inches] (W×H×D) /	290g max (with chassis & cover : 470g max)		
OTTIERS	COOLING METHOD		Convection *5			

- \*1 Specification is changed at option, refer to Instruction Manual.
- \*2 Peak loading for 10sec. And Duty 40% max. ( ) means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.
- \*3 This is the value that measured on measuring board with capacitor of  $22\,\mu\,\text{F}$  at 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- \*4 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.
- Derating is required.
- Applicable when remote control (optional) is added.
- Please contact us about dynamic load and input response.
- \*8 Please contact us about another class.
- To meet the specifications. Do not operate over-loaded condition.
- Parallel operation is not possible.
- Derating is required when operated with chassis and cover.
- Sound noise may be generated by power supply in case of pulse load.

## LMA100F | COSEL

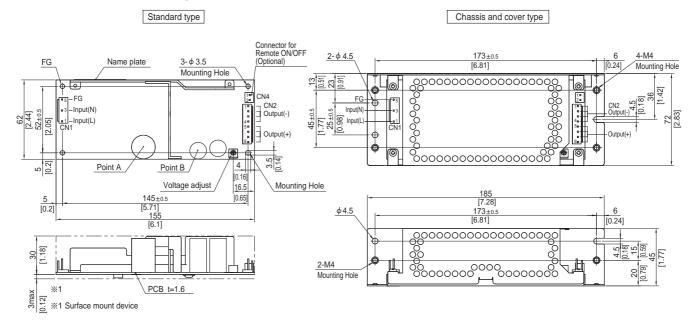
LMA

#### **Block diagram**



#### **External view**

\* External size of option is different from standard model.



- % 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	T	erminal
014	1-1123724-3	1-1123722-5	Chain	1123721-1
CIVI	1-1123/24-3	1-1123722-5	Loose	1318912-1
CNO	N2 1-1123723-8	1-1123722-8	Chain	1123721-1
CINZ	1-1123723-8		Loose	1318912-1
			(Mfr:Ty	co Electronics)

- \* I/O Connector is Mfr. Tyco Electronics
- \* Option:-J1:VH(J.S.T) connector type.

#### <PIN CONNECTION>

CN1 Pin No. Inp AC AC( 3 4 FG 5

CN2						
ut		Pin No.	Output			
(L)		1 to 4	-V			
(N)		5 to 8	+V			
_						

- $\ensuremath{\ensuremath{\%}}$  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.
- ※ 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



COSEL **AC-DC Power Supplies Medical type** 

#### Ordering information

150 LM

LMA



① Series name ② Single output ③ Output wattage ④ Universal input

(4) Universal input
(5) Output voltage
(6) Optional \*1
C: with Coating
G: Low leakage current
H: with the function to be acceptable
to output peak current

It is output peak current

It : VH(J.S.T.)connector type

R: with Remote ON/OFF

R2: with Remote ON/OFF

S: with Chassis

SN: with Chassis & cover

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	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 φ		
	CURRENT[A]	ACIN 100V	2.0typ (lo=100%)		
	ACIN 200V		1.0typ (lo=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	ACIN 100V		85.0typ (lo=100%)	85.0typ (Io=100%)	
INPUT	EFFICIENCY[%]	ACIN 200V	87.0typ (lo=100%)	87.0typ (Io=100%)	
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)		
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)		
	INRUSH CURRENT[A]		15typ (lo=100%) (At cold start) (Ta=25°C)		
	INKUSH CUKKENI[A]	ACIN 200V	30typ (lo=100%) (At cold start) (Ta=25℃)		
	LEAKAGE CURREN	T[mA]	0.10 / 0.25max (ACIN 100V / 240V 60Hz, Io=100%, Acc	ording to IEC60601-1)	
	VOLTAGE[V]		24	24	
	CURRENT[A]		6.3	6.3 (Peak 12.6) *2	
	LINE REGULATION[	mV] *7	96max	96max	
	LOAD REGULATION		150max	150max	
	RIPPLE[mVp-p] *3		120max	120max	
	KIPPLE[IIIVP-P] **		160max	160max	
	RIPPLE NOISE[mVp-p]*3		150max	150max	
OUTPUT	KIFFLE NOISE[IIIVP-P]*3		180max	180max	
	TEMPERATURE REGULATION[mV]		240max	240max	
	TEMPERATURE REGULATION[IIV]	-10 to +50℃	290max	290max	
	DRIFT[mV] *4		96max	96max	
	START-UP TIME[ms]		350typ (ACIN 100V, Io=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 SET		24.00 to 24.96	24.00 to 24.96	
	OVERCURRENT PROT		Works over 105% of rating (works over 101% of peak cur		
PROTECTION			27.60 to 33.60	27.60 to 33.60	
CIRCUIT AND		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 50N	1 /	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)		
	OUTPUT-RC-FG		7.00001 miniate, eaten carrent 2011/1, 200001 com=1 min (7.4.1.com formatare)		
	OUTPUT-RC				
	OPERATING TEMP., HUMID. AND				
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALIIIUDE			
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT	D/ 101 A	196.1m/s² (20G), 11ms, once each X, Y and Z axis		
SAFETY AND	AGENCY APPROVALS (AT ON		ANSI/AAMI ES60601-1, EN60601-1 3rd	ENERGOOD D	
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B,	EN55022-B	
REGULATIONS	HARMONIC ATTENU				
OTHERS	CASE SIZE/WEIGHT		75×36.5×160mm [2.95×1.44×6.30 inches] (W×H×D)	/ 3/Ug max (with chassis & cover : 600g max)	
COOLING METHOD			Convection *5		

- Specification is changed at option, refer to Instruction Manual.
- Peak loading for 10sec. And Duty 40% max.

  ( ) means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.

  \*3 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: RM103).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at  $25^\circ\!\text{C}\,,$  with the input voltage held constant at the rated input/output.
- Derating is required.

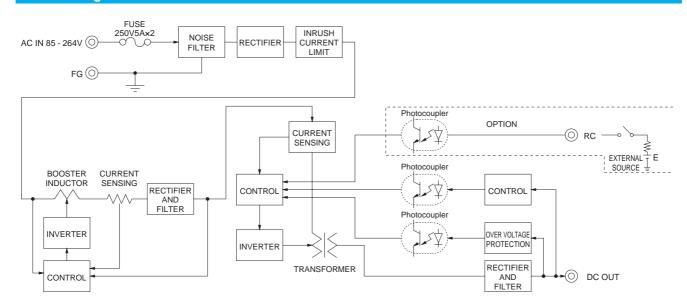
  Applicable when remote control (optional) is added.
- \*7 Please contact us about dynamic load and input response\*8 Please contact us about another class.
- To meet the specifications. Do not operate over-loaded condition.
- Parallel operation is not possible.

  Derating is required when operated with chassis and cover.
- Sound noise may be generated by power supply in case of pulse load.

## LMA150F | COSEL

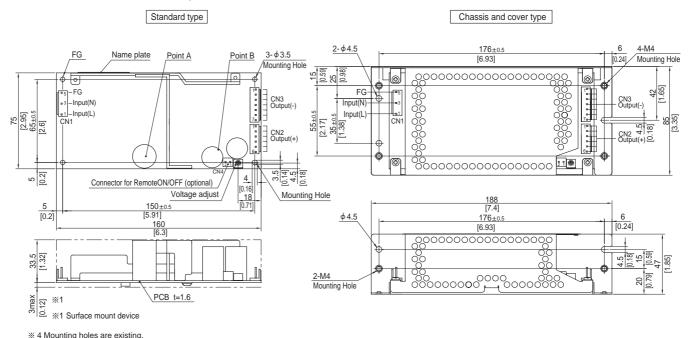
LMA

#### **Block diagram**



#### **External view**

\* External size of option is different from standard model.



- \* The back side of P.C.B. of the power supply is assembled some
- Be attention not to bump against the attached area by vibration.
- W 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	
014	4 4400704 0	1-1123722-5	Chain	1123721-1
CN1 1-1123724	1-1123724-3	1-1123722-5	Loose	1318912-1
ONIO	4 4400700 0	1-1123722-6	Chain	1123721-1
CNZ	1-1123723-6	1-1123/22-6	Loose	1318912-1
CNIO	4 4400700 7	1-1123722-7	Chain	1123721-1
CN3	1-1123723-7		Loose	1318912-1

(Mfr:Tyco Electronics)

- \* I/O Connector is Mfr. Tyco Electronics
- Option:-J1:VH(J.S.T) connector type.

#### <PIN CONNECTION>

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

- ※ 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.
- \*\* 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



Ima indd I MA 5

COSEL **AC-DC Power Supplies Medical type** 

#### Ordering information

240 LM

LMA



Recommended EMI/EMC Filter NAC-06-472

L MARCAGE OA LIV

① Series name ② Single output ③ Output wattage ④ Universal input

(4) Universal input
(5) Output voltage
(6) Optional \*1
C: with Coating
G: Low leakage current
H: with the function to be acceptable
to output peak current

It is output peak current

It : VH(J.S.T.)connector type

R: with Remote ON/OFF

R2: with Remote ON/OFF

S: with Chassis

SN: with Chassis & cover

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.

L MADAGE OA V

MODEL		LMA240F-24-Y	LMA240F-24-HY
MAX OUTPUT WATTAGE[W]		300	300 (480) *2
DC OUTPUT	Convection	24V 10A	24V 10A (20A) *2
DC 00 IPU1	Forced air	24V 12.5A	24V 12.5A (20A) *2

#### **SPECIFICATIONS**

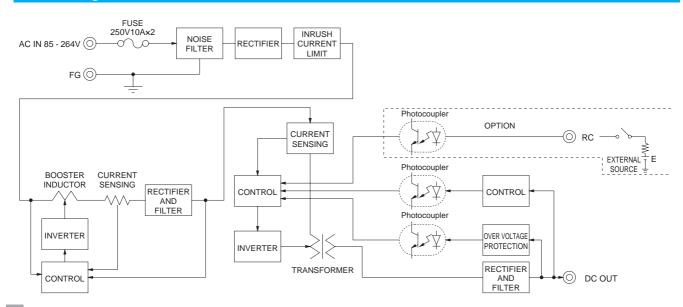
	MODEL		LMA240F-24-Y	LMA240F-24-HY		
	VOLTAGE[V]		AC85 - 264 1 φ			
	OUDDENTIAL	ACIN 100V	3.9typ (lo=100%)			
	CURRENT[A]  ACIN 100V ACIN 200V		1.8typ (lo=100%)			
	FREQUENCY[Hz]		50 / 60 (47 - 63)			
		ACIN 100V	86.0typ (Io=100%)	86.0typ (Io=100%)		
INPUT	EFFICIENCY[%]		88.0typ (lo=100%)	88.0typ (lo=100%)		
			0.99typ (lo=100%)	,		
	POWER FACTOR		0.95typ (lo=100%)			
			15 / 30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)			
	INRUSH CURRENT[A]	ACIN 200V				
	LEAKAGE CURREN	T[mA]	0.15 / 0.40max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)			
	VOLTAGE[V]		24	24		
		Convection		10 (Peak 20) *2		
	CURRENT[A]	Forced air		12.5 (Peak 20) *2		
	LINE REGULATION[		96max	96max		
	LOAD REGULATION		150max	150max		
			120max	120max		
	RIPPLE[mVp-p] *3		160max	160max		
			150max	150max		
OUTPUT	RIPPLE NOISE[mVp-p]*3		180max	180max		
			240max	240max		
	TEMPERATURE REGULATION[mV]		290max	290max		
	DRIFT[mV]		96max	96max		
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)	Jonax		
	HOLD-UP TIME[ms] *9					
	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		Works over 105% of rating (works over 101% of peak cu			
PROTECTION			27.60 to 33.60	27.60 to 33.60		
CIRCUIT AND			Not provided	27.00 to 50.00		
OTHERS	REMOTE SENSING		Not provided			
OTTIER(O	REMOTE ON/OFF		Option (Required external power source.)			
	INPUT-OUTPUT-RC	*6	AC4,000V 1minute, Cutoff current = 10mA, DC500V 50N	10 min (At Room Temperature)		
	INPUT-FG	**0	AC2,000V Iminute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)			
ISOLATION	OUTPUT:RC-FG	*6				
	OUTPUT-RC	*6				
			-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max			
	STORAGE TEMP., HUMID. AND					
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis			
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis	and and and and		
SAFETY AND	AGENCY APPROVALS (AT ON	IY AC input)	ANSI/AAMI ES60601-1, EN60601-1 3rd			
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B.	EN55022-B		
	HARMONIC ATTENU					
	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 *5	, o log max (min ondoolo a ootor looog max)		
*1 Specification is changed at option, refer to Instruction Ma				To meet the specifications. Do not operate over-loaded condition.		

- \*1 Specification is changed at option, refer to Instruction Manual.
  \*2 Peak loading for 10sec. And Duty 40% max.
- () means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.
- Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- \*4 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.
  - Derating is required.
- Applicable when remote control (optional) is added.
  Please contact us about dynamic load and input response.
- Please contact us about another class.
- To meet the specifications. Do not operate over-loaded condition.
- Parallel operation is not possible.
- Derating is required when operated with chassis and cover.
- Sound noise may be generated by power supply in case of pulse load.

## LMA240F | COSEL

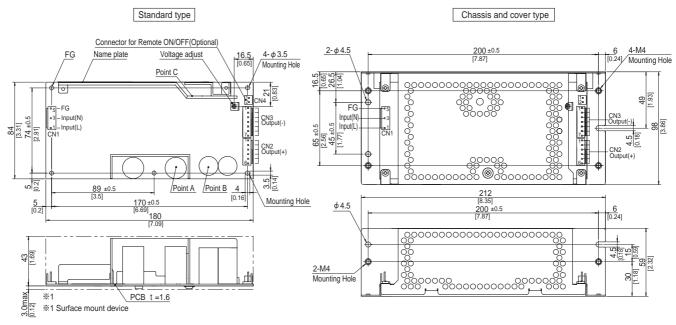
LMA

#### **Block diagram**



#### **External view**

\* External size of option is different from standard model.



- % 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.
- W 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/O Connector		Mating connector	Terminal		
CN1	1-1123724-3	1-1123722-5	Chain	1123721-1	
			Loose	1318912-1	
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1	
			Loose	1318912-1	
CN3	1-1123723-7	1-1123722-7	Chain	1123721-1	
			Loose	1318912-1	

(Mfr:Tyco Electronics)

- ※ I/O Connector is Mfr. Tyco Electronics
- ※ Option:-J1:VH(J.S.T) connector type.

#### <PIN CONNECTION>

<pin connection=""></pin>								
CN1			CN2		CN3			
n No.	Input		Pin No.	Output		Pin No.	Output	
1	AC(L)							
2								
3	AC(N)		1 to 6	+V		1 to 7	-V	
4								
5	FG							
	N1 n No. 1 2 3	N1	N1	N1 CN2 n No. Input 1 AC(L) 2 3 AC(N) 4 1 to 6	N1 CN2  n No. Input 1 AC(L) 2 3 AC(N) 4 1 to 6 +V	N1 CN2  n No. Input 1 AC(L) 2 3 AC(N) 4 1 to 6 +V	N1 CN2 CN3  n No. Input 1 AC(L) 2 3 AC(N) 4 1 to 6 +V 1 to 7	

- % 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

Connector type

CN4 Option (Mfr:J.S.T)

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

LMA-7



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## **Basic Characteristics Data**

### **Basic Characteristics Data**

LMA

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							

<sup>\*1</sup> The value of input current is at ACIN 100V and rated load.