

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	LFP100F-24-Y	LFP100F-36-Y	LFP100F-48-Y
MAX OUTPUT WATTAGE[W] *2	103.2 (206.4)	100.8 (201.6)	100.8 (201.6)
DC OUTPUT *2	24V 4.3A (8.6A)	36V 2.8A (5.6A)	48V 2.1A (4.2A)

## SPECIFICATIONS

	MODEL		LFP100F-24-Y	LFP100F-36-Y	LFP100F-48-Y	
	VOLTAGE[V]		AC85 - 264 1 $\phi$ (Refer to Instruc	ction Manual 1.1 and 3.2) *5		
F		ACIN 100V	1.3typ (lo=100%)			
	CURRENT[A]	ACIN 200V	0.7typ (lo=100%)			
	FREQUENCY[Hz]		50 / 60 (47 - 63)			
		ACIN 100V	84.0typ (lo=100%)	84.0typ (lo=100%)	84.0typ (lo=100%)	
NPUT			87.0typ (lo=100%)	87.0typ (lo=100%)	87.0typ (lo=100%)	
_			0.99typ (lo=100%)			
	POWER FACTOR	ACIN 200V				
-		ACIN 100V		(Ta=25℃)		
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold start)			
-	LEAKAGE CURREN	T[mA]		40V 60Hz, lo=100%, According to I	EC60950-1 and DEN-AN)	
	VOLTAGE[V]		24	36	48	
	CURRENT[A]	*2	4.3 (Peak 8.6)	2.8 (Peak 5.6)	2.1 (Peak 4.2)	
	LINE REGULATION		96max	144max	192max	
E E	LOAD REGULATION			240max	240max	
	RIPPLE[mVp-p] *3		120max	150max	150max	
			160max	200max	200max	
F			150max	250max	250max	
OUTPUT			180max	300max	300max	
		0 to +50°C	240max	360max	480max	
			290max	450max	600max	
	DRIFT[mV] *4		96max	144max	192max	
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		21.60 to 27.50	32.40 to 39.60	39.60 to 52.80	
	OUTPUT VOLTAGE SET		24.00 to 24.96	36.00 to 37.44	48.00 to 49.92	
	OVERCURRENT PROT		Works over 101% of rating and			
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]	,	41.40 to 50.40	55.20 to 67.20	
	<b>OPERATING INDICA</b>		Not provided			
	REMOTE SENSING	-	Not provided			
	REMOTE ON/OFF		Option (Refer to Instruction Ma	nual 6)		
	INPUT-OUTPUT-RC	*6		ent = 10mA, DC500V 50M $\Omega$ min (A	t Room Temperature)	
	INPUT-FG			ent = 10mA, DC500V 50M $\Omega$ min (A	· · · ·	
SOLATION	OUTPUT·RC-FG	*6		$t = 25mA$ , DC500V 50M $\Omega$ min (At F		
F	OUTPUT-RC	*6	<i>,</i>	nt = 25mA, DC100V 10M $\Omega$ min (At F	/	
1	OPERATING TEMP., HUMID.AND	ALTITUDE *5			Manual 3.2), 3,000m (10,000feet) max	
F	STORAGE TEMP., HUMID.AND			n condensing), 9,000m (30,000feet)		
	VIBRATION			utes period, 60minutes each along		
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis			
	AGENCY APPROVALS (At only	AC input)		1), EN60950-1, EN50178 Complies	with DEN-AN	
IOISE	CONDUCTED NOISE	/_		CISPR22-B, EN55011-B, EN55022		
REGULATIONS	HARMONIC ATTENU	ATOR	Complies with IEC61000-3-2 (0	Class A) *8		
	CASE SIZE/WEIGHT			6.10 inches] (W×H×D) / 290g max	(with chassis & cover : 480g max)	
OTHERS	CASE SIZE/WEIGHT					

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

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.

\*5 Derating is required.\*6 Applicable when remote control (optional) is added.

\*

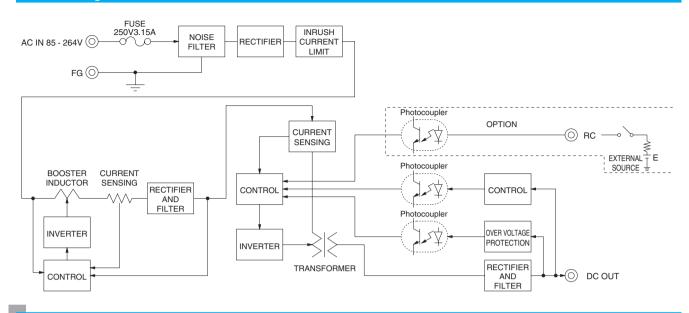
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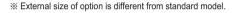
Parallel operation is not possible.

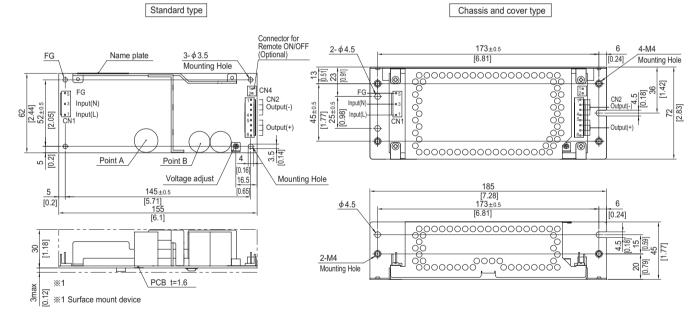
Derating is required when operated with chassis and cover. Sound noise may be generated by power supply in case of pulse load.

## **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.

<PIN CONNECTION>

% Use the spacer of 8mm length or more regarding insulation. And do not use press-fitting bush.

% Point A, Point B are thermometry points. Please refer to Instruction Manual 3.

I/O Connector		I/O Connector Mating connector		erminal
CNI	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
CINZ	1-1123723-0	1-1123722-0	Loose	1318912-1
			(Mfr:Ty	co Electronics)

% I/O Connector is Mfr. Tyco Electronics

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

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		5106	÷ν
5	FG		

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

% Tolerance : ±1 [±0.04]

Weight : 290g max (with chassis & cover : 480g max)
 PCB material : CEM3

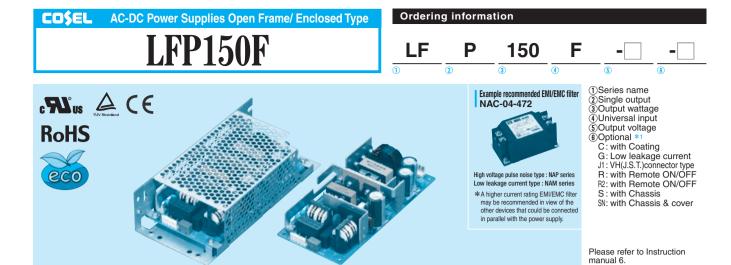
\* Optional chassis and cover material : Electric galvanizing steel board.

\* 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



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MODEL	LFP150F-24-Y	LFP150F-36-Y	LFP150F-48-Y
MAX OUTPUT WATTAGE[W] *2	151.2 (302.4)	151.2 (302.4)	153.6 (307.2)
DC OUTPUT *2	24V 6.3A (12.6A)	36V 4.2A (8.4A)	48V 3.2A (6.4A)

## **SPECIFICATIONS**

	MODEL		LFP150F-24-Y	LFP150F-36-Y	LFP150F-48-Y			
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Ins	truction Manual 1.1 and 3.2) *5				
		ACIN 100V	2.0typ (lo=100%)	·				
	CURRENT[A]	ACIN 200V	1.0typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)	0 / 60 (47 - 63)				
		ACIN 100V	85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)			
NPUT	EFFICIENCY[%]	ACIN 200V	88.0typ (lo=100%)	88.0typ (lo=100%)	88.0typ (lo=100%)			
		ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
		ACIN 100V	15typ (lo=100%) (At cold sta	art) (Ta=25°C)				
	INRUSH CURRENT[A]	ACIN 200V						
	LEAKAGE CURREN	T[mA]		/ 240V 60Hz, lo=100%, According to	IEC60950-1 and DEN-AN)			
	VOLTAGE[V]		24	36	48			
	CURRENT[A]	*2	6.3 (Peak 12.6)	4.2 (Peak 8.4)	3.2 (Peak 6.4)			
	LINE REGULATION	mV] *7		144max	192max			
	LOAD REGULATION		150max	240max	240max			
			120max	150max	150max			
		-10 - 0°C	160max	200max	200max			
		0 to +50℃	150max	250max	250max			
OUTPUT			180max	300max	300max			
		0 to +50℃	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50°C	290max	450max	600max			
	DRIFT[mV]	*4	96max	144max	192max			
	START-UP TIME[ms]		350typ (ACIN 100V. lo=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	RANGE[V]	21.60 to 27.50	32.40 to 39.60	39.60 to 52.80			
	OUTPUT VOLTAGE SET	TING[V]	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92			
	OVERCURRENT PROT		Works over 101% of rating a	and recovers automatically				
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]		41.40 to 50.40	55.20 to 67.20			
	OPERATING INDICA		Not provided					
THERS	REMOTE SENSING	-	Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction	Manual 6)				
	INPUT-OUTPUT-RC	*6		surrent = 10mA, DC500V 50M $\Omega$ min (	At Room Temperature)			
	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)				
SOLATION	OUTPUT·RC-FG	*6		rrent = 25mA, DC500V 50M $\Omega$ min (At				
	OUTPUT-RC			rrent = 25mA, DC100V 10M $\Omega$ min (At				
	OPERATING TEMP., HUMID.AND	ALTITUDE *5	-10 to +70℃, 20 - 90%RH (I	Non condensing) (Refer to Instruction	Manual 3.2), 3,000m (10,000feet) max			
	STORAGE TEMP., HUMID.AND			Non condensing), 9,000m (30,000feet				
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (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					
AFETY AND	AGENCY APPROVALS (At only	AC input)		50-1), EN60950-1, EN50178 Complies	s with DEN-AN			
OISE	CONDUCTED NOISE			I-B, CISPR22-B, EN55011-B, EN5502				
EGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2					
	CASE SIZE/WEIGHT				nax (with chassis & cover : 610g max)			
OTHERS	COOLING METHOD		75 X 36.5 X 160mm [2.95 X 1.44 X 6.30 inches] (W X H X D) / 380g max (with chassis & cover : 610g max) Convection (Refer to Instruction Manual 3.1 and 3.2) *5					

Manual 5. In detail. \*4 Drift is the change in DC output for an eight hour period () means peak current. There is a possibility that an internal device is damaged when the specification is exceeded. +16I constant at the rated input/output.

\*3 This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.

\*5 Derating is required.
\*6 Applicable when remote control (optional) is added.

\*

\*

Parallel operation is not possible.

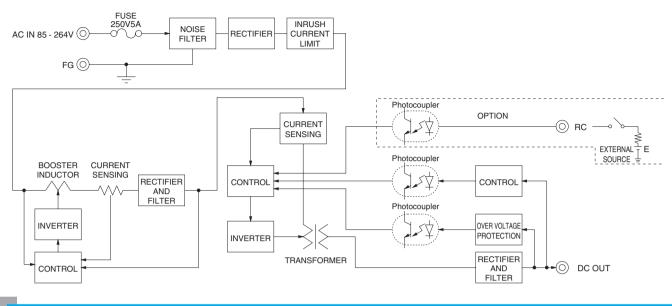
Derating is required when operated with chassis and cover.

Sound noise may be generated by power supply in case of pulse load.

LFP150F | CO\$EL

Chassis and cover type

## **Block diagram**



External view



Standard type

6 <u>2-φ4.5</u> 176±0.5 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] ৰ্ তি 0  $\left[ \circ \right]$  $\odot$ ٢ 42 -FG FG 5 ¥ CN3 Output(-) CN3 Output(-) ∎3 –Input(N) Input(N) ŏŏ 75 [2.95] 65±0.5 [2.6] ■1 – Input(L) CN1 Input(L) 55±0.5 000 85 [3.35] CN 2.17 35± 1.381 4.5 CN2 Output(+) CN2 7 0 Ż 00 ¢ 0 2 1 卷 Ø 3.5 0.14 5.5 0.22 5[0.2] 4 Connector for RemoteON/OFF (optional) [0.16 Voltage adjust Mounting Hole 18 188 5 [7.4] 176±0.5 [0.2] [5.91] φ4.5 160 [0.24] [6.93] [6.3] <u>d</u> 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 [2] 2 ×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. Please refer to Instruction Manual 3.

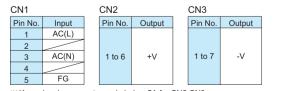
I/C	Connector	Mating connector	Mating connector Terminal	
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CINT	1-1123724-3	1-1123722-5	Loose	1318912-1
CNID	1-1123723-6	1-1123722-6	Chain	1123721-1
GNZ	1-1123723-0	1-1123/22-0	Loose	1318912-1
010	1-1123723-7	1-1123722-7	Chain	1123721-1
CN3	1-1123723-7	1-1123722-7	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 : 380g max (with chassis & cover : 610g max)

※ PCB material : CEM3

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

\* Dimensions in mm, []=inches

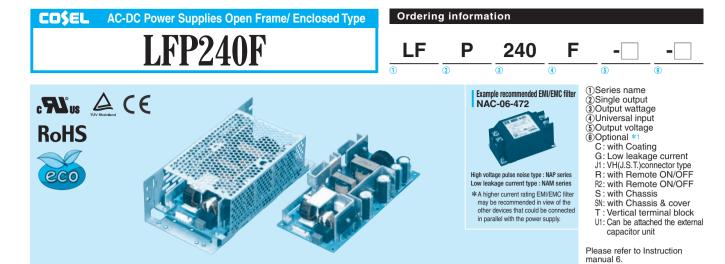
※ Mounting torque (Mounting hole of chassis) :1.5N • m (16kgf • cm) max

Connector type



Barrier strip type Model B2B-XH-A

Model B2B-AH-A Mating Connector (Terminal) XHP-2 ( BXH-001T-P0.6 or SXH-001T-P0.6



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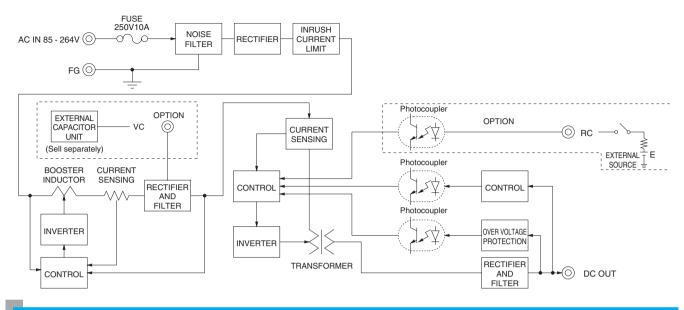
MODEL		LFP240F-24-Y	LFP240F-30-Y	LFP240F-36-Y	LFP240F-48-Y
MAX OUTPUT WATTAGE[W]	*2	300 (480)	300 (480)	302.4 (482.4)	302.4 (480)
	Convection	24V 10A (20A)	30V 8A (16A)	36V 6.7A (13.4A)	48V 5A (10A)
	Forced air	24V 12.5A (20A)	30V 10A (16A)	36V 8.4A (13.4A)	48V 6.3A (10A)

# **SPECIFICATIONS**

	MODEL		LFP240F-24-Y	LFP240F-30-Y	LFP240F-36-Y	LFP240F-48-Y	
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to In	struction Manual 1.1 and 3.2	2) *5		
		ACIN 100V	3.6typ (lo=100%)		,		
	CURRENT[A]		1.8typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
		ACIN 100V	( /	86.0typ (lo=100%)	86.0typ (lo=100%)	86.0typ (lo=100%)	
NPUT	EFFICIENCY[%]	ACIN 200V	88.5typ (lo=100%)	88.5typ (lo=100%)	89.0typ (lo=100%)	89.0typ (lo=100%)	
		ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)				
		ACIN 100V		arv inrush current /Seconda	ry inrush current) (More than	3 sec. to re-start)	
	INRUSH CURRENT[A]	ACIN 200V			ry inrush current) (More than		
	LEAKAGE CURREN				According to IEC60950-1 an		
	VOLTAGE[V]		24	30	36	48	
		Convection *2	10 (Peak 20)	8 (Peak 16)	6.7 (Peak 13.4)	5 (Peak 10)	
	CURRENT[A]	Forced air *2	12.5 (Peak 20)	10 (Peak 16)	8.4 (Peak 13.4)	6.3 (Peak 10)	
	LINE REGULATION			144max	144max	192max	
	LOAD REGULATION			240max	240max	240max	
			120max	150max	150max	150max	
	RIPPLE[mVp-p] *3           RIPPLE NOISE[mVp-p]*3           TEMPERATURE REGULATION[mV]	<u> </u>	160max	200max	200max	200max	
			150max	250max	250max	250max	
OUTPUT			180max	300max	300max	300max	
		0 to +50°C		360max	360max	480max	
		-10 to +50°C	290max	450max	450max	600max	
	DRIFT[mV]	*4	96max	144max	144max	192max	
S	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms] *9						
	OUTPUT VOLTAGE ADJUSTMENT RANGEIVI		21.60 to 27.50	27.00 to 33.00	32.40 to 39.60	39.60 to 52.80	
	OUTPUT VOLTAGE SETTING[V]		24.00 to 24.96	30.00 to 31.20	36.00 to 37.44	48.00 to 49.92	
	OVERCURRENT PROTECTION		Works over 101% of rating and recovers automatically				
BOTECTION	OVERVOLTAGE PROTEC		27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20	
	OPERATING INDICA		Not provided	0.000.00.12.000		00.20 10 07.20	
THERS	REMOTE SENSING	inen	Not provided				
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)				
	INPUT-OUTPUT-RC	*6			50M $\Omega$ min (At Room Tempe	rature)	
	INPUT-FG				$50M\Omega$ min (At Room Tempe		
SOLATION	OUTPUT·RC-FG	*6	, , ,		\	/	
	OUTPUT-RC		AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature) AC100V 1minute, Cutoff current = 25mA, DC100V 10M $\Omega$ min (At Room Temperature)				
			-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max				
	STORAGE TEMP., HUMID.AND		$-20$ to $+75^{\circ}$ , 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		$196.1 \text{m/s}^2$ (20G), 11 ms, once each X, Y and Z axis				
AFETY AND	AGENCY APPROVALS (At only	AC input)			78 Complies with DEN-AN		
IOISE	CONDUCTED NOISE	<u> </u>	Complies with FCC-B, VCC		1		
	HARMONIC ATTENU		Complies with IEC61000-3		, D		
	CASE SIZE/WEIGHT				D) / 540g max (with chassis	& cover · 860g max)	
OTHERS	COOLING METHOD		Convection / Forced air (R	<b>*</b> `		a covor i coog maxy	
<ul> <li>*2 Peak load Manual 5.1</li> <li>() means device is d</li> <li>*3 This is th</li> </ul>	n is changed at option, refer to I ong for 10sec. And Duty 40% n detail. peak current. There is a pos amaged when the specification	max, refer to ssibility that n is exceede measuring	an internal d, hoard with bar of the standard standard an internal bar of the standard an internal an internal bar of the standard an internal bar of the stan	Hz oscilloscope or Ripple-Noise me ISOKU-GIKEN: RM103). le in DC output for an eight hour pe warm-up at 25°C, with the input volt le rated input/output.	ter *7 Please contact us about d *8 Please contact us about a riod *9 By attaching an external cap tage * To meet the specifications. * Parallel operation is not po * Derating is required when -	nother class. acitor unit, it is possible to extend the hold-up t Do not operate over-loaded condition.	

LFP240F | COSEL

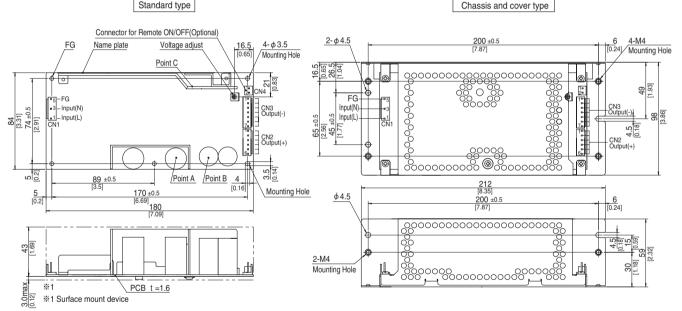
## **Block diagram**



External view



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. Please refer to Instruction Manual 3.

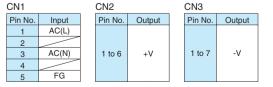
I/C	Connector	Mating connector	Terminal		
CNI	1-1123724-3	1-1123722-5	Chain	1123721-1	
CINT	1-1123724-3	1-1123/22-5	Loose	1318912-1	
010	4 4400700 0	1-1123722-6	Chain	1123721-1	
CIN2	1-1123723-6	1-1123/22-6	Loose	1318912-1	
010	4 4400700 7	1-1123722-7	Chain	1123721-1	
CN3	1-1123723-7	1-1123/22-7	Loose	1318912-1	
(Minteres 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]

% 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

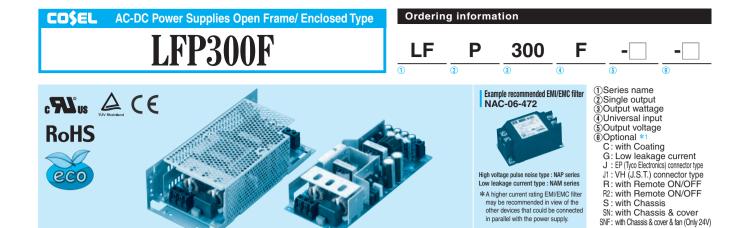


1	RC(+)	
2	RC(-)	

Barrier strip type Model B2B-XH-A

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

<sup>%</sup> Weight : 540g max (with chassis & cover : 860g max) \* PCB material : CEM3



This power supply is manufactured by SMD technology. The stress to PC.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		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY
MAX OUTPUT WATTAGE[W]	*2	360 (600)	360 (600)	360 (604.8)	360 (604.8)
	Convection	24V 12.5A (25A)	30V 10A (20A)	36V 8.4A (16.8A)	48V 6.3A (12.6A)
	Forced air	24V 15A (25A)	30V 12A (20A)	36V 10A (16.8A)	48V 7.5A (12.6A)

T1 : Holizontal terminal block U1: Can be attached the external capacitor unit

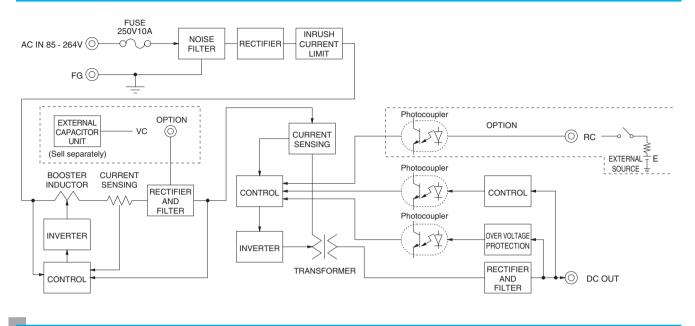
Please refer to Instruction manual 6.

## **SPECIFICATIONS**

	MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY		
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to In	struction Manual 1.1 and 3.2)	⊧5			
	CURRENT[A]	ACIN 100V	4.3typ (lo=100%)					
	CORRENT[A]	ACIN 200V	2.2typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
POWER		ACIN 100V	85.0typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)		
	EFFICIENCY[%]	ACIN 200V	88.0typ (lo=100%)	88.0typ (lo=100%)	88.0typ (lo=100%)	88.0typ (lo=100%)		
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)					
		ACIN 200V	0.95typ (lo=100%)					
		ACIN 100V	15 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)					
	INRUSH CURRENT[A]	ACIN 200V						
	LEAKAGE CURRENT[mA]		0.45 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)					
	VOLTAGE[V]		24	30	36	48		
			12.5 (Peak 22) Convection	10 (Peak 18) Convection	8.4 (Peak 14.6) Convection	6.3 (Peak 11) Convection		
		ACIN 100V*2	15 (Peak 22) Forced air	12 (Peak 18) Forced air	10 (Peak 14.6) Forced air	7.5 (Peak 11) Forced air		
	CURRENT[A]		12.5 (Peak 25) Convection	10 (Peak 20) Convection	8.4 (Peak 16.8) Convection	6.3 (Peak 12.6) Convection		
		ACIN 200V*2	15 (Peak 25) Forced air	12 (Peak 20) Forced air	10 (Peak 16.8) Forced air	7.5 (Peak 12.6) Forced ai		
LINE REGULATION		96max	144max	144max	192max			
	LOAD REGULATION		150max	240max	240max	240max		
			120max	150max	150max	150max		
	RIPPLE[mVp-p] *3		160max	200max	200max	200max		
OUTPUT			150max	250max	250max	250max		
	RIPPLE NOISE[mVp-p]*3		180max	300max	300max	300max		
			240max	360max	360max	480max		
	TEMPERATURE REGULATION[mV]	-10 to +40°C		450max	450max	600max		
	DRIFT[mV]	*4	96max	144max	144max	192max		
	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)					
	HOLD-UP TIME[ms] *9							
	OUTPUT VOLTAGE ADJUSTMENT		21.60 to 27.50	27.00 to 33.00	32.40 to 39.60	39.60 to 52.80		
	OUTPUT VOLTAGE SET		24.00 to 24.96	30.00 to 31.20	36.00 to 37.44	48.00 to 49.92		
	OVERCURRENT PROTECTION			and recovers automatically	00.00 10 07.11	10.00 10 10.02		
ROTECTION			27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20		
CIRCUIT AND	OPERATING INDICA		27.60 to 33.60 34.50 to 42.00 41.40 to 50.40 55.20 to 67.20					
DTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)					
	INPUT-OUTPUT-RC	*6	• •		AQ min (At Boom Temperatu			
INPUT-FG			AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
SOLATION	OUTPUT-RC-FG	*6	<ul> <li>AC2,000V Iminute, Cutofi current = 10ffA, DC500V 50MΩ min (At Room Temperature</li> <li>AC500V 1minute, Cutofi current = 25mA, DC500V 50MΩ min (At Room Temperature</li> </ul>		/			
	OUTPUT-RC *6							
OPERATING TEMP., HUMID.AND		AI TITUDE *5	-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max					
	STORAGE TEMPHUMID.AND							
NVIRONMENT	VIBRATION	ALINOPL	10 - 55Hz, 19.6m/s <sup>2</sup> (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 APPROVALS (At onl							
IOISE	CONDUCTED NOISE	1	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
EGULATIONS	HARMONIC ATTENU		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 (Class A) *8					
	CASE SIZE/WEIGHT		95×52.5×222mm [3.74×2.07×8.74 inches] (W×H×D) (without terminal block) / 810g max (with chassis & cover : 1,270g max					
OTHERS	COOLING METHOD		Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5					
*1 Specification	on is changed at option, refer to	Instruction M		/Hz oscilloscope or Ripple-Noise meter	/	ic load and input response		
	ing for 10sec. And Duty 40%			SOKU-GIKEN: RM103).	*8 Please contact us about dynam			
Manual 5. I	n detail.		*4 Drift is the change in DC output for an eight hour period *9 By attaching an external capacitor unit, it is possible to extend the hold-up tim					
() means peak current. There is a possibility that								
device is damaged when the specification is exceeded. *3 This is the value that measured on measuring b								
	e value that measured on	measuring	board with <b>*5</b> Derating is require	he	* Derating is required when oners	ated with chassis and cover		

LFP300F | COSEL

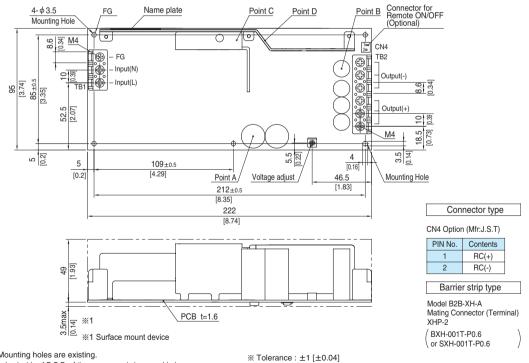
## **Block diagram**



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, Point D are thermometry points. Please refer to Instruction Manual 3.
- % Keep drawing current per pin below 20A for TB2.
- Weight : 810g max (with chassis & cover : 1,270g max)
   PCB material : CEM3 % Dimensions in mm, [ ]=inches
- % Screw tightening torque : M4 1.6N \* m (16.9kgf \* cm) max