

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	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 ¢ (Refer to Ins	truction Manual 1.1 and 3.2) *5	·			
	CURRENT[A]	ACIN 100V						
	CORRENT[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%)			
	EFFICIENCY[%]	ACIN 200V	87.0typ (lo=100%)	87.0typ (lo=100%)	87.0typ (lo=100%)			
	ACIN 100V		0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
		ACIN 100V	15typ (lo=100%) (At cold start) (Ta=25°C)					
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold sta	art) (Ta=25℃)				
	LEAKAGE CURREN	T[mA]		.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 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			
	LOAD REGULATION			240max	240max			
			120max	150max	150max			
			160max	200max	200max			
			150max	250max	250max			
UTPUT			180max	300max	300max			
			240max	360max	480max			
	TEMPERATURE REGULATION[mV]		290max	450max	600max			
	DRIFT[mV]	*4		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 a		10.00 10 10.02			
ROTECTION			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
	OPERATING INDICA		Not provided	11.40 10 00.40	00.2010 07.20			
THERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction	Manual 6)				
	INPUT-OUTPUT-RC	*6			At Room Temperature)			
	INPUT-FG	~0	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature) AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)					
OLATION	OUTPUT·RC-FG	*6						
	OUTPUT-RC	*6						
	OPERATING TEMP., HUMID.AND				Manual 3.2), 3,000m (10,000feet) max			
	STORAGE TEMP., HUMID.AND			Non condensing), 9,000m (30,000feet)				
VIRONMENT	VIBRATION	ALIHODE		ninutes period, 60minutes each along				
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, onc					
FETY AND	AGENCY APPROVALS (AT ON	IV AC input)		50-1), EN60950-1, EN50178 Complies				
DISE	CONDUCTED NOISE			-B, CISPR22-B, EN55011-B, EN5502				
	HARMONIC ATTENU		Complies with IEC61000-3-2		2-D			
LOOLAHONO	CASE SIZE/WEIGHT			2 (Class A) *8 0×6.10 inches] (W×H×D) / 290g max	(with chassis & covor : 180g may)			
OTHERS	CASE SIZE/WEIGHT				(with chassis & cover . 400g Max)			
*2 Peak loadi	on is changed at option, refer to I ing for 10sec. And Duty 40%		Dinstruction (Equivalent to KEIS	Iz oscilloscope or Ripple-Noise meter *7 Plea	se contact us about dynamic load and input response. se contact us about another class.			

To meet the specifications. Do not operate over-loaded condition. after a half-hour warm-up at 25°C, with the input voltage \* 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. \*

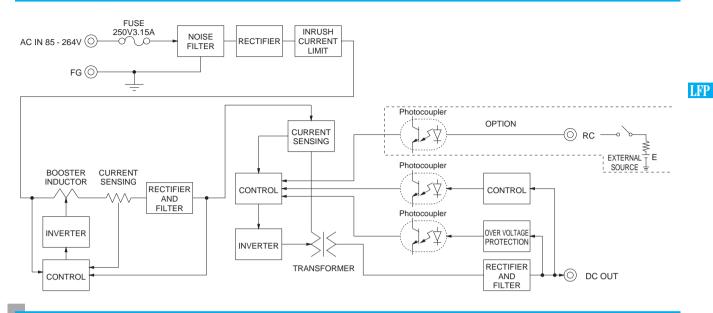
device is damaged when the specification is exceeded. held constant at the r \*3 This is the value that measured on measuring board with \*5 Derating is required. \*6 Applicable when remote control (optional) is added.

held constant at the rated input/output.

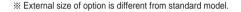
() means peak current. There is a possibility that an internal

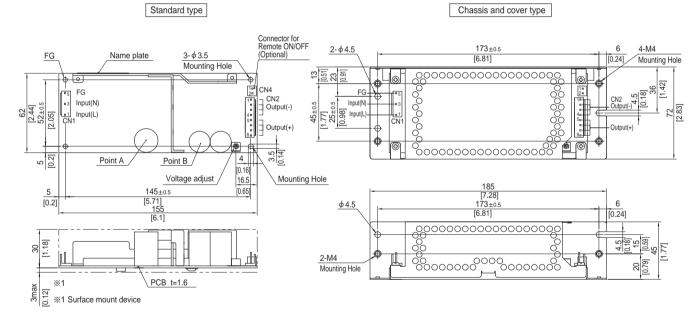
capacitor of 22 µ F at 150mm from output terminal.

### **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.

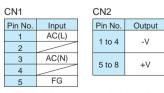
% Point A, Point B are thermometry points. Please refer to Instruction Manual 3.

I/C	Connector	Mating connector	Т	erminal		
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1		
CINT	1-1123724-3	1-1123722-5 Loose		1318912-1		
CNID	1-1123723-8	1-1123722-8	Chain	1123721-1		
CINZ	1-1123723-8	1-1123722-8	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.

% 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

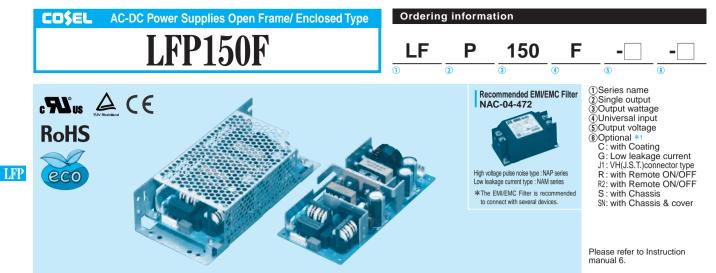
% Mounting torque (Mounting hole of chassis) :1.5N \* m (16kgf \* cm) max

#### 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



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	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 Inst	ruction Manual 1.1 and 3.2) *5			
		ACIN 100V	· · ·	,			
	CURRENT[A]	ACIN 200V	1.0typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
NPUI		ACIN 100V	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%)		
		ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR ACIN 100V		0.95typ (lo=100%)				
	ACIN 100V		15typ (lo=100%) (At cold sta	15typ (Io=100%) (At cold start) (Ta=25°C)			
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold sta				
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=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	96max	144max	192max		
	LOAD REGULATION		150max	240max	240max		
			120max	150max	150max		
	RIPPLE[mVp-p] *3		160max	200max	200max		
	T TEMPERATURE REGULATION[mV]		150max	250max	250max		
OUTPUT			180max	300max	300max		
		0 to +50°C	240max	360max	480max		
			290max	450max	600max		
S	DRIFT[mV] *4			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 a				
PROTECTION			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20		
CIRCUIT AND			Not provided		001201001120		
OTHERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)				
	INPUT-OUTPUT-RC	*6		urrent = 10mA, DC500V 50M $\Omega$ min (A	t Room Temperature)		
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)				
SOLATION	OUTPUT·RC-FG	*6		rent = 25mA, DC500V 50M $\Omega$ min (At F			
	OUTPUT-RC						
	OPERATING TEMP., HUMID.AND		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			Non condensing), 9,000m (30,000feet)			
ENVIRONMENT	VIBRATION			ninutes period, 60minutes each along			
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, onc				
SAFETY AND		IY AC input)		50-1), EN60950-1, EN50178 Complies	with DEN-AN		
NOISE	CONDUCTED NOISE		, , ,	-B, CISPR22-B, EN55011-B, EN55022			
	HARMONIC ATTENU		Complies with IEC61000-3-2				
	CASE SIZE/WEIGHT			44×6.30 inches] (W×H×D) / 380g ma	ax (with chassis & cover : 610g max)		
OTHERS	COOLING METHOD		Convection (Refer to Instructi	/ _ U			
*2 Peak load Manual 5.	on is changed at option, refer to ling for 10sec. And Duty 40%	max, refer t ssibility that	anual. Measured by 20MH o Instruction (Equivalent to KEIS *4 Drift is the change an internal after a half-hour wa	z oscilloscope or Ripple-Noise meter *7 Pleas OKU-GIKEN: RM103). *8 Pleas in DC output for an eight hour period * To me arm-up at 25°C, with the input voltage * Parall	e contact us about dynamic load and input response. e contact us about another class. et the specifications. Do not operate over-loaded condition. el operation is not possible. ng is required when operated with chassis and cover.		

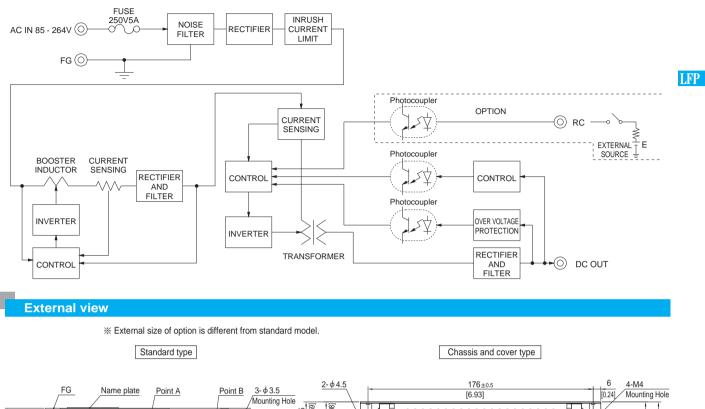
\*3 This is the value that measured on measuring board with \*5 Derating is required. capacitor of 22 µ F at 150mm from output terminal. \*6 Applicable when rem

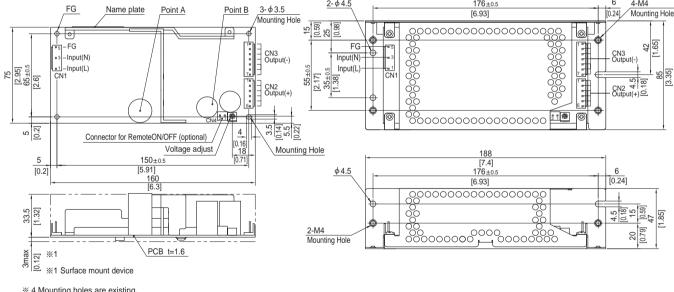
\*6 Applicable when remote control (optional) is added.

\*

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

**Block diagram** 





<sup>% 4</sup> Mounting holes are existing.

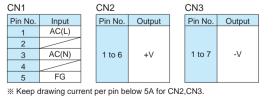
<sup>%</sup> Point A, Point B are thermometry points. Please refer to Instruction Manual 3.

I/C	Connector	Mating connector	Terminal	
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CINT	1-1123724-3	1-1123722-5	Loose	1318912-1
010	4 4400700 0	4 4400700 0	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)

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

#### <PIN CONNECTION>



- % 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

Contents

RC(+)

RC(-)

Barrier strip type

Mating Connector (Terminal)

CN4 Option (Mfr:J.S.T)

PIN No

2

XHP-2

Model B2B-XH-A

BXH-001T-P0.6

or SXH-001T-P0.6

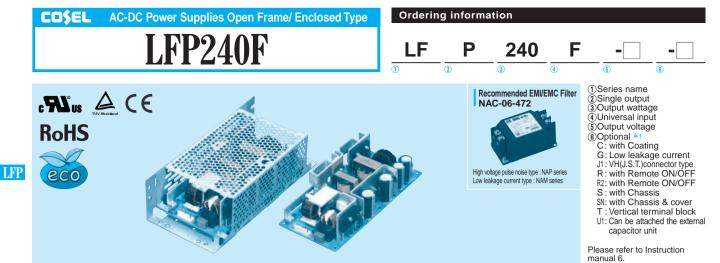
<sup>%</sup> The back side of P.C.B. of the power supply is assembled some SMDs.

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

<sup>%</sup> Use the spacer of 8mm length or more regarding insulation.

And do not use press-fitting bush.

<sup>%</sup> I/O Connector is Mfr. Tyco Electronics



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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)
DC OUTPUT *	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 ¢ (Refer to	Instruction Manual 1.1 and 3	.2) *5		
		ACIN 100V	3.6typ (lo=100%)		,		
	CURRENT[A]	ACIN 200V	1.8typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
		ACIN 100V	86.0typ (lo=100%)	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					
	POWER FACTOR	ACIN 200V	.95typ (lo=100%)				
		ACIN 100V	15 / 30typ (lo=100%) (Pr	imary inrush current /Seconda	ary inrush current) (More than	3 sec. to re-start)	
	INRUSH CURRENT[A]	ACIN 200V	30 / 30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)				
	LEAKAGE CURREN				According to IEC60950-1 and		
	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		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		160max	200max	200max	200max	
			150max	250max	250max	250max	
UTPUT	RIPPLE NOISE[mVp-p]*3	-10 - 0°C		300max	300max	300max	
		0 to +50°C		360max	360max	480max	
	TEMPERATURE REGULATION[mV]		290max	450max	450max	600max	
5	DRIFT[mV] *4		96max	144max	144max	192max	
	START-UP TIME[ms]		350typ (ACIN 100V, Io=1		1441118	19211183	
	HOLD-UP TIME[ms] *9		20typ (ACIN 100V, Io=10				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2010 (ACIN 1000, 10=10 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 PROT			ng and recovers automatical		48.00 10 49.92	
DOTECTION	OVERVOLTAGE PROTE		27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20	
ROTECTION			Not provided	34.30 10 42.00	41.40 10 50.40	55.20 10 67.20	
THERS							
THERS	REMOTE SENSING REMOTE ON/OFF		Not provided Option (Refer to Instructi	an Manual 6)			
	INPUT-OUTPUT-RC	*6		,	50MΩ min (At Room Temper	roturo)	
	INPUT-FG	*0	, , ,	,	· · · · · · · · · · · · · · · · · · ·	/	
SOLATION			, , ,	,	50MΩ min (At Room Temper	/	
	OUTPUT-RC-FG	*6					
	OUTPUT-RC						
	OPERATING TEMP., HUMID.AND						
NVIRONMENT	STORAGE TEMP., HUMID.AND	ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis				
		N/ 10 '	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN				
AFETY AND	AGENCY APPROVALS (AT ON						
OISE	CONDUCTED NOISE			CCI-B, CISPR22-B, EN5501	1-B, EN55022-B		
LOULATIONS	HARMONIC ATTENU		Complies with IEC61000	· /		<b>0</b>	
THERS	CASE SIZE/WEIGHT				(D) / 540g max (with chassis)	& cover : 860g max)	
	COOLING METHOD			(Refer to Instruction Manual 3			
	on is changed at option, refer to			20MHz oscilloscope or Ripple-Noise m		namic load and input response.	
*2 Peak load Manual 5. I	ing for 10sec. And Duty 40% n detail.	max, reter to		KEISOKU-GIKEN: RM103). ange in DC output for an eight hour p	*8 Please contact us about ar eriod *9 By attaching an external cap	nother class. acitor unit, it is possible to extend the hold-up	
	peak current. There is a po	ssibility that		ur warm-up at 25°C, with the input vo		Do not operate over-loaded condition.	
	amaged when the specificatio		d. held constant a	t the rated input/output.	<ul> <li>Parallel operation is not po</li> </ul>	ssible.	
*2 This is th	a value that measured on	magazing	board with <b>*5</b> Derating is reg	uirod	M Departmenting of an environment of the second	porated with chassis and cover	

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

\*

Derating is required when operated with chassis and cover.

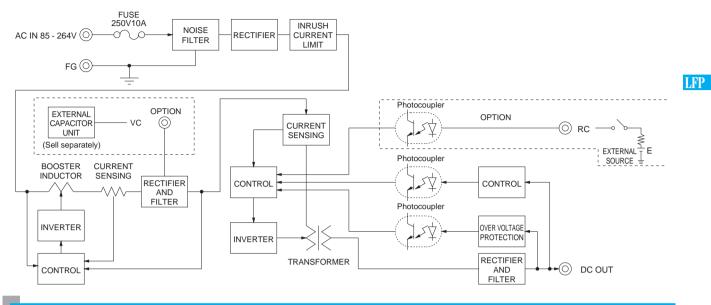
Sound noise may be generated by power supply in case of pulse load.

 device is damaged when the specification is exceeded.
 held constant at the r

 \*3 This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.
 \*6
 Applicable when rem

Chassis and cover type

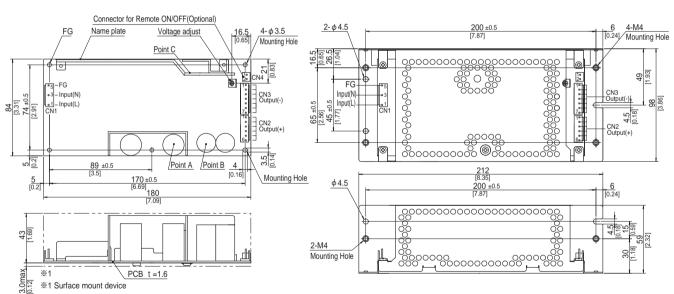
### **Block diagram**



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.

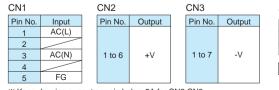
I/O Connecto	or	Mating connector	Т	erminal
014 4 440070	4.0	1-1123722-5	Chain	1123721-1
CN1 1-112372	CN1 1-1123724-3		Loose	1318912-1
0.10 4 4 4 0 0 7 0			Chain	1123721-1
CN2 1-112372	3-6	1-1123722-6	Loose	1318912-1
0.10 4 4 4 0 0 7 0		4 4 4 9 9 7 9 9 7	Chain	1123721-1
CN3 1-1123723-7		1-1123722-7	Loose	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 : 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

	. ,
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

Ordering information **COSEL** AC-DC Power Supplies Open Frame/ Enclosed Type LFP300F <u>LF</u> P 300 F -①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
③Output voltage Recommended EMI/EMC Filter NAC-06-472 **RoHS** (⑤) Output voltage
(⑧) Optional \*1
C: with Coating
G: Low leakage current
J : EP (Tyoe Electronics) connector type
J1: VH (J.S.T.) connector type
R: with Remote ON/OFF
8: with Remote ON/OFF
8: with Chapacie 0 High voltage pulse noise type : NAP series eco Low leakage current type : NAM series S : with Chassis SN: with Chassis & cover SNF: with Chassis & cover & fan (Only 24V) T1 : Holizontal terminal block U1: Can be attached the external 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. capacitor unit Please refer to Instruction manual 6.

MODEL LFP300F-24-TY LFP300F-30-TY LFP300F-36-TY LFP300F-48-TY MAX OUTPUT WATTAGE[W] 360 (600) \*2 360 (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) DC OUTPUT \* Forced air 24V 15A (25A) 30V 12A (20A) 36V 10A (16.8A) 48V 7.5A (12.6A)

# **SPECIFICATIONS**

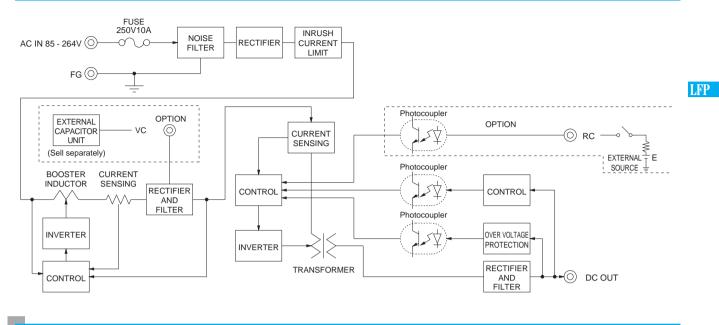
LFP

	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		
		ACIN 100V	4.3typ (lo=100%)				
	CURRENT[A]	ACIN 200V	2.2typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
		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%)	
-		ACIN 100V					
	POWER FACTOR	ACIN 200V					
		ACIN 100V		arv inrush current /Secondary	inrush current) (More than 3 se	ec to re-start)	
	INRUSH CURRENT[A]	ACIN 200V			inrush current) (More than 3 se		
	LEAKAGE CURRENT[mA]				cording to IEC60950-1 and D		
	VOLTAGE[V]	.[]	24	30	36	48	
	VOLINOL[V]		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) Convection 7.5 (Peak 12.6) Forced ai	
				· · · · ·			
	LINE REGULATION			144max	144max	192max	
	LOAD REGULATION			240max	240max	240max	
	RIPPLE[mVp-p] *3		120max	150max	150max	150max	
UTPUT			160max	200max	200max	200max	
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max	250max	
Ţ			180max	300max	300max	300max	
	TEMPERATURE REGULATIONImV1		240max	360max	360max	480max	
		-10 to +40℃	290max	450max	450max	600max	
	DRIFT[mV] *4		96max	144max	144max	192max	
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms] *9		20typ (ACIN 100V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		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 PROT	ECTION	Works over 101% of rating	and recovers automatically		•	
ROTECTION	OVERVOLTAGE PROTE	CTION[V]	27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20	
	<b>OPERATING INDICA</b>		Not provided		1		
THERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Option (Refer to Instruction	Manual 6)			
	INPUT-OUTPUT-RC	*6			M $\Omega$ min (At Room Temperatu	ire)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)				
SOLATION	OUTPUT·RC-FG	*6					
	OUTPUT-RC	*6					
			-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max				
			$-20$ to $+75^{\circ}$ C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
NVIRONMENT	VIBRATION	ALITOPE	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 ON	IV AC input)					
OISE	CONDUCTED NOISE						
EGULATIONS	HARMONIC ATTENU		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B				
LOOLAHONO	CASE SIZE/WEIGHT		Complies with IEC61000-3-2 (Class A) *8 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)				
THERS	COOLING METHOD				, <u>ş</u>	in chassis & cover : 1,270g ma	
				efer to Instruction Manual 3.1		· · · · · · · · · · · · · · · · · · ·	
*2 Peak loadi Manual 5. I () means	on is changed at option, refer to ing for 10sec. And Duty 40% n detail. peak current. There is a pos lamaged when the specification	max, refer to ssibility that	o Instruction (Equivalent to KE *4 Drift is the chang after a half-hour v	IHz oscilloscope or Ripple-Noise meter ISOKU-GIKEN: RM103). e in DC output for an eight hour perior warm-up at 25°C, with the input voltage le rated input/output.	*8 Please contact us about anothe d *9 By attaching an external capacitor	er class. r unit, it is possible to extend the hold-up to not operate over-loaded condition.	
			board with *5 Derating is require		* Derating is required when opera		
conacitor (	of 22 ILE at 150mm from output	t terminel	* C Applicable when r	amote control (optional) is added	Ne Council a size many his second	by nower supply in case of pulse load	

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

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

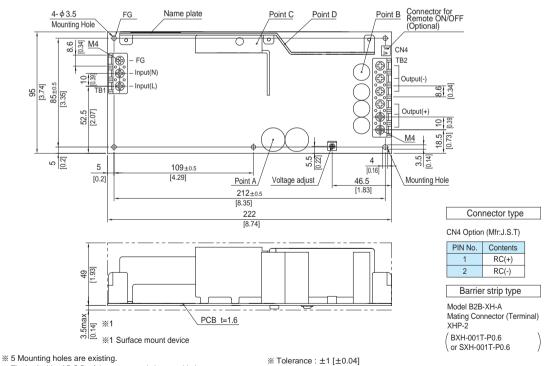
### **Block diagram**



External view



Standard type



% 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