

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.

- ①Series name ②Single output ③Output wattage ④Universal input ©Output voltage
- (a) Output Voltage
 (b) Optional *1
 C: with Coating
 G: Low leakage current
 J1: VH(J.S.T.) connector type

 - R: with Remote ON/OFF R2: with Remote ON/OFF
 - S: with Chassis
 - SN: with Chassis & cover

Please refer to Instruction manual 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	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 Instruction Manual 1.1 and 3.2) *5				
	CURRENT[A]		1.3typ (Io=100%)					
	ACIN 200		0.7typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	EFFICIENOVIO/1	ACIN 100V	84.0typ (Io=100%)	84.0typ (Io=100%)	84.0typ (Io=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	87.0typ (Io=100%)	87.0typ (Io=100%)	87.0typ (Io=100%)			
	POWER FACTOR	ACIN 100V	0.99typ (Io=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
	INRUSH CURRENT[A]		15typ (Io=100%) (At cold start) (Ta	a=25℃)				
	INHUSH CURRENT[A]	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V	60Hz, Io=100%, According to IEC	60950-1 and DEN-AN)			
	VOLTAGE[V]		24	36	48			
	CURRENT[A]	*2	4.3 (Peak 8.6)	2.8 (Peak 5.4)	2.1 (Peak 4.2)			
	LINE REGULATION[96max	144max	192max			
	LOAD REGULATION			240max	240max			
	RIPPLE[mVp-p] *3		120max	150max	150max			
	HIFFEE[IIIVP-P] **		160max	200max	200max			
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max			
OUTPUT	TIII F EE NOISE[IIIVP-P]**		180max	300max	300max			
	TEMPERATURE REGULATION[mV]		240max	360max	480max			
			290max	450max	600max			
	DRIFT[mV]		00111637	144max	192max			
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT		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 red					
PROTECTION			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
	OPERATING INDICA	TION	Not provided					
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)					
	INPUT-OUTPUT-RC	*6	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-RC-FG		Treesest Trimitate, eater carreit Zerrin, 200001 contra trimitate (Tri Treesin Temperature)					
	OUTPUT-RC	*6	The root immutes, eaten carrent Lenning Be root rent = 1 mm (The room remperature)					
	OPERATING TEMP.,HUMID.AND							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE		ondensing), 9,000m (30,000feet) m				
	VIBRATION			s period, 60minutes each along X,	Y and Z axis			
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN					
SAFETY AND	AGENCY APPROVALS (AT ON				N DEN-AN			
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CIS					
NEGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Clas		ithout choosis and source			
OTHERS	CASE SIZE/WEIGHT			0 inches] (WXHXD) / 290g max (w	itnout chassis and cover)			
	COOLING METHOD		Convection (Refer to Instruction Manual 3.1 and 3.2) *5					

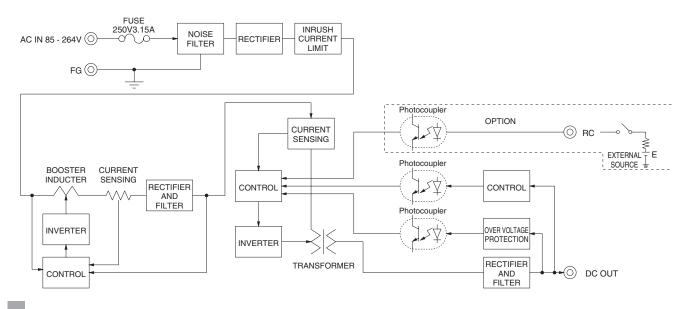
- Specification is changeed at option, refer to Instruction Manual.
- *2 Peak loading for 10sec. AND Duty 40% max, refer to Instruction Manual 5. In detail.
 - () means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.

 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- *3 This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.
- *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.
- *5 Derating is required.
- *6 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.

LFP-2

LFP100F | COSEL

Block diagram



External view

* External size of option is different from standard model.

Standard type Chassis and cover type Connector for Remote ON/OFF $2 - \phi 4.5$ 173±0.5 4-M4 Name plate $3 - \phi 3.5$ (Optional) [6.81] [0.24] Mounting Hole Mounting Hole 100 CN4
100 CN4
100 CN4
100 CN4 4.5 .18] 36 [1.42] FG FG CN2 Output(-) Ontbrnt(-) 6 0.18 Input(N) Input(N) 25±0.5 0.98] Inbnt(r) 62 [2.44] 52±0.5 2.05] 72 [2.83] Input(L) 3.5 4 Point A Point B [0.16] Voltage adjust Mounting Hole 16.5 185 [7.28] 173±0.5 [6.81] 145±0.5 [0.65] [0.2] $\phi 4.5$ 6 [0.24] [6.1] 4.5 [0.18] [0.59] 45 [1.18] 2-M4 Mounting Hole PCB t=1.6 %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. $\ensuremath{\mathbb{X}}$ 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		Mating connector	Terminal			
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1		
CN1 1	1-1123724-3	1-1123/22-5	Loose	1318912-1		
ONIO	1-1123723-8	1-1123722-8	Chain	1123721-1		
CNZ	1-1123723-8	1-1123/22-8	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	
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 8	+٧
5	FG		

- ※ Keep drawing current per pin below 5A for CN2.
- ※ Tolerance : ±1 [±0.04]
- Weight: 290g max (without chassis and cover)
- ※ 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

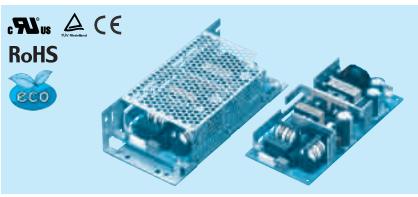
Connector type

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



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.
- ①Series name ②Single output
- 3 Output wattage 4 Universal input
- ©Output voltage
- (a) Output Voltage
 (b) Optional *1
 C: with Coating
 G: Low leakage current
 J1: VH(J.S.T.) connector type

 - R: with Remote ON/OFF R2: with Remote ON/OFF
 - S: with Chassis
- SN: with Chassis & cover

Please refer to Instruction manual 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)

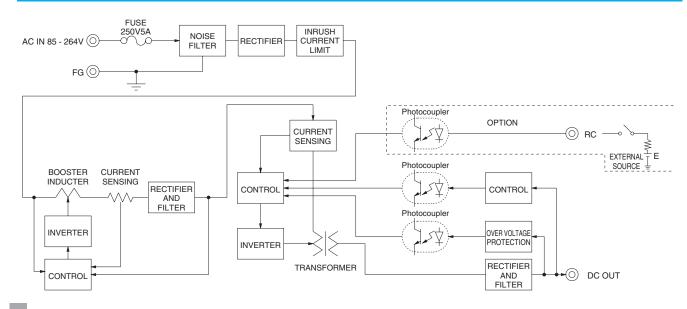
SPECIFICATIONS

	MODEL		LFP150F-24-Y	LFP150F-36-Y	LFP150F-48-Y			
	VOLTAGE[V]		AC85 - 264 1 \(\phi \) (Refer to Instruction	n Manual 1.1 and 3.2) *5				
	CURRENT[A]	ACIN 100V	2.0typ (Io=100%)					
	CORRENT[A]	ACIN 200V	1.0typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	EFFICIENCY[0/]	ACIN 100V	85.5typ (Io=100%)	85.5typ (Io=100%)	85.5typ (Io=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	88.0typ (Io=100%)	88.0typ (Io=100%)	88.0typ (Io=100%)			
	POWER FACTOR	ACIN 100V	.99typ (Io=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
	INRUSH CURRENT[A]		15typ (Io=100%) (At cold start) (Ta	a=25℃)				
	INKUSH CUKKENI[A]	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V	60Hz, Io=100%, According to IEC	60950-1 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[96max	144max	192max			
	LOAD REGULATION			240max	240max			
	RIPPLE[mVp-p] *3		120max	150max	150max			
	THIFF EE[IIIVP-P]		160max	200max	200max			
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max			
OUTPUT	TIII T EE NOICE[IIIVP P]**		180max	300max	300max			
	TEMPERATURE REGULATION[mV]		240max	360max	480max			
			290max	450max	600max			
	DRIFT[mV]		00111637	144max	192max			
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT		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 red					
PROTECTION			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
	OPERATING INDICA	TION	Not provided					
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)					
	INPUT-OUTPUT-RC	*6	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-RC-FG		Treesest Timinates, eatent carreit. Zenixi, zeesest contra timi (tre treem temperature)					
	OUTPUT-RC	*6	The root immutes, eaten carrent Lennin, Be root rent = 11111 (re room remperature)					
	OPERATING TEMP., HUMID. AND							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE		ondensing), 9,000m (30,000feet) ma				
	VIBRATION IMPACT			s period, 60minutes each along X, V	r allu z axis			
OAFFTY AND		/t	196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN					
SAFETY AND NOISE	AGENCY APPROVALS (AT ON CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CIS		I DEIN-AIN			
	HARMONIC ATTENU		Complies with FCC-B, VCCI-B, CIS					
ILGULATIONS	CASE SIZE/WEIGHT			s A) *8 30 inches] (W×H×D) / 380g max (without chassis and cover)			
OTHERS	COOLING METHOD		Convection (Refer to Instruction Ma		without chassis and cover)			
	COOLING WE I HOD		Convection (Refer to instruction Ma	iiuai 3. i diiu 3.2) 🕫				

- Specification is changeed at option, refer to Instruction Manual
- Peak loading for 10sec. AND Duty 40% max, refer to Instruction Manual 5. In detail.
 - () 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).
- *3 This is the value that measured on measuring board with capacitor of 22 µF at 150mm from output terminal.
- *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.
- *5 Derating is required.
- *6 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.

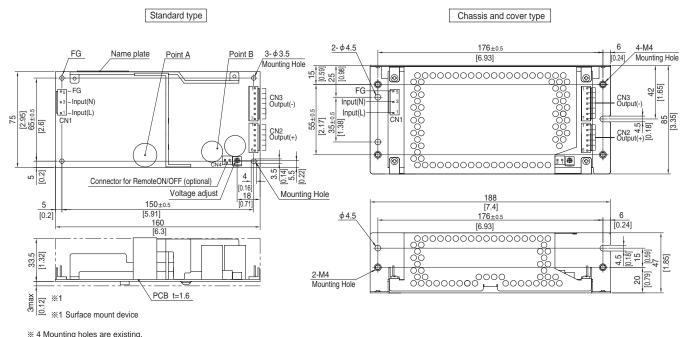
LFP150F | CO\$EL

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
- 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/O	Connector	Mating connector	Terminal		
	CN1 1-1123724-3		1-1123722-5	Chain	1123721-1	
C	INI	1-1123724-3	1-1123722-5	Loose	1318912-1	
	NO	1-1123723-6	1-1123722-6	Chain	1123721-1	
C	INZ	1-1123723-0	1-1123722-6	Loose	1318912-1	
		4 4400700 7	1-1123722-7	Chain	1123721-1	
C	N3	1-1123723-7	1-1123/22-/	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	2							
3	}	AC(N)		1 to 6	+V		1 to 7	-V
4								
5	;	FG						
× Ka	on c	drawing curr	ont	nor nin ha	Now 5A for I	-NI⊃	CNI3	

- ep drawing current per pin below 5A for CN2,CN3.
- ※ Tolerance : ±1 [±0.04]
- Weight: 380g max (without chassis and cover)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

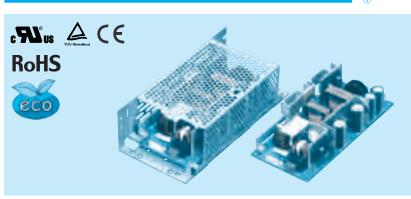
Connector type

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



Recommended Noize Filter NAC-06-472

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

- ①Series name
 ②Single output
 ③Output wattage
 ④Universal input
 ⑤Output voltage
 ⑥Optional *1
 C: with Coating
 G: Low leakage current
 J1: VH(J.S.T.)connector type
 R: with Remote ON/OFF
 R2: with Remote ON/OFF
 S: with Chassis

 - S: with Chassis
 - SN: with Chassis & cover T : Vertical terminal block

Please refer to Instruction manual 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		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)
DC OUTDUT	Convection	24V 10A (20A)	30V 8A (16A)	36V 6.7A (13.4A)	48V 5A (10A)
DC OUTPUT *2	Forced air	24V 12.5A (20A)	30V 10A (16A)	36V 8.4A (13.4A)	48V 6.3A (10A)

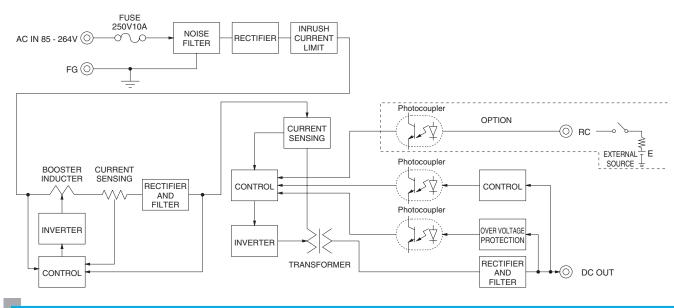
SPECIFICATIONS

	MODEL		LFP240F-24-Y	LFP240F-30-Y	LFP240F-36-Y	LFP240F-48-Y			
	VOLTAGE[V]		AC85 - 264 1 ϕ (Refer to Instruction Manual 1.1 and 3.2) *5						
	OUDDENTIAL	ACIN 100V	3.6typ (Io=100%)						
	CURRENT[A]		Jr. (/						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	EEEIOJENOV(0/1	ACIN 100V	86.0typ (Io=100%)	86.0typ (Io=100%)	86.0typ (lo=100%)	86.0typ (Io=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	88.5typ (Io=100%)	88.5typ (Io=100%)	89.0typ (lo=100%)	89.0typ (Io=100%)			
	DOWED FACTOR	ACIN 100V	0.99typ (Io=100%)						
	POWER FACTOR	ACIN 200V	0.95typ (Io=100%)						
	INRUSH CURRENT[A]		15 / 30typ (Io=100%) (Pr	15 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)					
	INKUSH CUKKENI[A]	ACIN 200V		30 / 30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100	OV / 240V 60Hz, Io=100%	, According to IEC60950-	1 and DEN-AN)			
	VOLTAGE[V]		24	30	36	48			
	CURRENT[A]	Convection *2	10 (Peak 20)	8 (Peak 16)	6.7 (Peak 13.4)	5 (Peak 10)			
	CORRENT[A]	Forced air *2	12.5 (Peak 20)	10 (Peak 16)	8.4 (Peak 13.4)	6.3 (Peak 10)			
	LINE REGULATION[96max	144max	144max	192max			
	LOAD REGULATION	[mV] *7	150max	240max	240max	240max			
	RIPPLE[mVp-p] *3	0 to +50℃	120max	150max	150max	150max			
	KIPPLE[IIIVP-P] *		160max	200max	200max	200max			
OUTPUT	RIPPLE NOISE[mVp-p]*3	0 to +50℃	150max	250max	250max	250max			
501701	MIPPLE NOISE[IIIVP-P]**	-10 - 0℃	180max	300max	300max	300max			
	TEMPERATURE REGULATION[mV]	0 to +50°C	240max	360max	360max	480max			
		-10 to +50°C	290max	450max	450max	600max			
	DRIFT[mV]	*4	o o i i i a	144max	144max	192max			
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		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 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 automatic					
	OVERVOLTAGE PROTEC		27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20			
	OPERATING INDICA	TION	Not provided						
OTHERS	REMOTE SENSING		Not provided						
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)						
	INPUT-OUTPUT-RC	*6	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-RC-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-RC		AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (At Room Temperature)						
	OPERATING TEMP.,HUMID.AND								
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	VIBRATION				tes each along X, Y and Z	axis			
	IMPACT	IIV 40 ' "	196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
SAFETY AND	AGENCY APPROVALS (AT ON					AIN			
NOISE	CONDUCTED NOISE			CI-B, CISPR22-B, EN5501	I-B, EN55022-B				
HEGULATIONS	HARMONIC ATTENU		Complies with IEC61000-		VD) / 540 / ''' ·				
OTHERS	CASE SIZE/WEIGHT			1.81×7.09 inches] (W×H		cnassis and cover)			
	COOLING METHOD		Convection / Forced air (Refer to Instruction Manual	3.1 and 3.2) *5				

- Specification is changeed at option, refer to Instruction Manual
- Peak loading for 10sec. AND Duty 40% max, refer to Instruction Manual 5. In detail.
 - () 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).
- This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.
- ${\color{red} *4}$ 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.
- *5 Derating is required. *6 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.

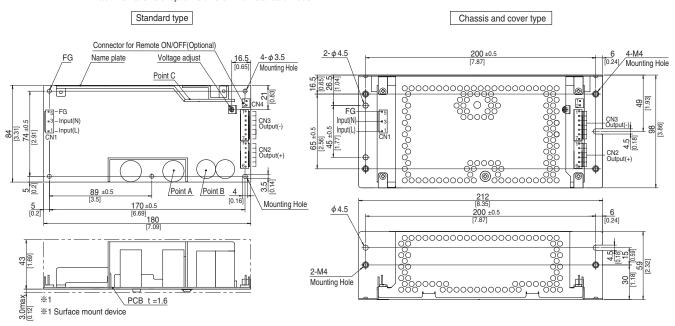
LFP240F | CO\$EL

Block diagram



External view

* External size of option is different from standard model.



- % 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 Connector		Mating connector	Terminal	
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CNI			Loose	1318912-1
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1
			Loose	1318912-1
ONIO	1-1123723-7	1-1123722-7	Chain	1123721-1
CN3			Loose	1318912-1

(Mfr:Tvco 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: 540g max (without chassis and cover)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

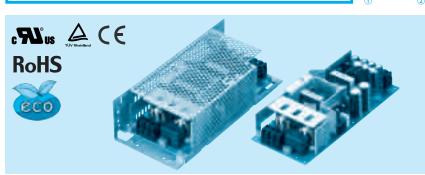
CN4 Option (Mfr:J.S.T)

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



Recommended Noize Filter NAC-06-472

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

- ①Series name
 ②Single output
 ③Output wattage
 ④Universal input
 ⑤Output voltage
 ⑥Optional *1
 C: with Coating
 G: Low leakage current
 J: EP (Iyos Electronics) connector type
 R: with Remote ON/OFF
 R2: with Remote ON/OFF
 S: with Chassis

 - S: with Chassis SN: with Chassis & cover SNF: with Chassis & cover & fan
- (Only 24V) T1: Holizontal terminal block Please refer to Instruction manual 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		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)
DC CUTPUT	Convection	24V 12.5A (25A)	30V 10A (20A)	36V 8.4A (16.8A)	48V 6.3A (12.5A)
DC OUTPUT *2 F	Forced air	24V 15A (25A)	30V 12A (20A)	36V 10A (16.8A)	48V 7.5A (12.5A)

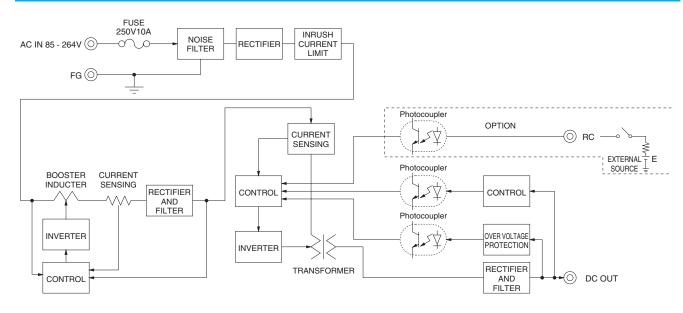
SPECIFICATIONS

	MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY		
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to I	nstruction Manual 1.1 and 3.	2) *5			
	ACIN 100V							
	CURRENT[A]	ACIN 200V	2.2typ (Io=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
INPUT	EFFICIENCY[%]	ACIN 100V	85.0typ (Io=100%)	85.5typ (Io=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)		
		ACIN 200V		88.0typ (Io=100%)	88.0typ (Io=100%)	88.0typ (lo=100%)		
		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	30 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)					
	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			
	CURRENT[A]		12.5 (Peak 25) Convection	10 (Peak 20) Convection	8.4 (Peak 16.8) Convection	6.3 (Peak 12) Convection		
		ACIN 200V*2	15 (Peak 25) Forced air	12 (Peak 20) Forced air	10 (Peak 16.8) Forced air			
	LINE REGULATION	mV1 *7	96max	144max	144max	192max		
	LOAD REGULATION			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		
	TEMPERATURE REGULATION[mV]		240max	360max	360max	480max		
			290max	450max	450max	600max		
			96max	144max	144max	192max		
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)					
	HOLD-UP TIME[ms]		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 PROTECTION		Works over 101% of rating and recovers automatically					
PROTECTION	OVERVOLTAGE PROTECTION[V]		27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20		
	OPERATING INDICA		Not provided	1	1			
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)					
	INPUT-OUTPUT-RC	*6						
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
SOLATION			AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)					
			AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND ALTITUDE *5							
ENVIRONMENT	STORAGE TEMPHUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis					
SAFETY AND	AGENCY APPROVALS (AT ON	IIY AC input)						
IOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
REGULATIONS	HARMONIC ATTENU		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					
OTHERS	COOLING METHOD		Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5					

- Specification is changeed at option, refer to Instruction Manual.
- *2 Peak loading for 10sec. AND Duty 40% max, refer to Instruction Manual 5. In detail.
 - () 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).
- *3 This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.
- 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.
- *5 Derating is required.
- *6 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.



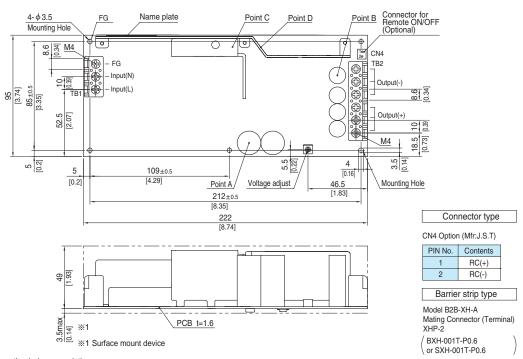
Block diagram



External view

* External size of option is different from standard model.

Standard type



- $\ensuremath{\mathbb{X}}$ 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.

- ※ Tolerance: ±1 [±0.04]
- Weight: 810g max (without chassis and cover)PCB material: CEM3
- ※ Dimensions in mm, []=inches
- * Screw tightening torque: M4 1.6N · m (16.9kgf · cm) max