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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 5 Output voltage

(§)Output voltage
(§)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

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.

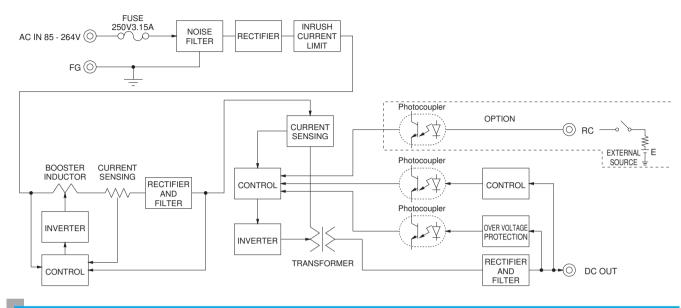
MODEL	LFP100F-24-Y	LFP100F-36-Y	LFP100F-48-Y
MAX OUTPUT WATTAGE[W] *2	103.2 (206.4)	100.8 (201.6)	100.8 (201.6)
DC OUTPUT *2	24V 4.3A (8.6A)	36V 2.8A (5.6A)	48V 2.1A (4.2A)

# **SPECIFICATIONS**

	MODEL		LFP100F-24-Y	LFP100F-36-Y	LFP100F-48-Y		
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Instruction I	Manual 1.1 and 3.2) *5			
	OUDDENTIAL	ACIN 100V	1.3typ (lo=100%)				
	CURRENT[A] ACIN 200V		0.7typ (lo=100%)				
FREQUENCY[Hz]			0 / 60 (47 - 63)				
	EFFICIENCY[%] ACIN 100V		84.0typ (lo=100%)	84.0typ (Io=100%)	84.0typ (lo=100%)		
INPUT	EFFICIENCY[%]	ACIN 200V	87.0typ (lo=100%)	87.0typ (Io=100%)	87.0typ (Io=100%)		
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)				
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=	25℃)			
	INNUSH CONNENT[A]	ACIN 200V	30typ (lo=100%) (At cold start) (Ta=				
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V	60Hz, lo=100%, According to IEC6095	0-1 and DEN-AN)		
	VOLTAGE[V]		24	36	48		
	CURRENT[A]		4.3 (Peak 8.6)	2.8 (Peak 5.6)	2.1 (Peak 4.2)		
	LINE REGULATION[		96max	144max	192max		
	LOAD REGULATION			240max	240max		
	RIPPLE[mVp-p] *3		120max	150max	150max		
	MIFFEE[IIIVP-P] **		160max	200max	200max		
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max		
OUTPUT	HIFFEE NOISE[IIIVP-P]**		180max	300max	300max		
	TEMPERATURE REGULATION(mV)		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, 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 recor				
			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	- /			
	INPUT-OUTPUT-RC	*6		10mA, DC500V 50M $\Omega$ min (At Room)			
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-RC-FG	*6		5mA, DC500V 50M $\Omega$ min (At Room Te			
	OUTPUT-RC	*6		5mA, DC100V 10M $\Omega$ min (At Room Te			
	OPERATING TEMP., HUMID. AND			densing) (Refer to Instruction Manual 3	3.2), 3,000m (10,000feet) max		
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALIIIUDE	-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				
0.45557/ 4.15	IMPACT	IV AO immorii	196.1m/s² (20G), 11ms, once each		NI ANI		
SAFETY AND	AGENCY APPROVALS (AT ON			N60950-1, EN50178 Complies with DE	IN-AIN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISF				
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class				
OTHERS	CASE SIZE/WEIGHT			nches] (WXHXD) / 290g max (with ch	iassis & cover : 480g max)		
	COOLING METHOD		Convection (Refer to Instruction Manu	al 3.1 and 3.2) *5			

- Specification is changed 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.

  \*3 This is the value that measured on measuring board with
- capacitor of 22  $\mu$  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°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
- \*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.



### **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 FG Name plate  $3 - \phi 3.5$ (Optional) [6.81] [0.24] Mounting Hole Mounting Hole 36 [1.42] CN4 FG FG-) ) ) ) ) ) CN2 Output(-) Ontbrt(-) 6 CN5 75 81.0 45±0.5 [0.98] 25±0.5 [0.98] (C) 62 [2.44] 52±0.5 [2.05] Input(N) 72 [2.83] Input(L) Output(+) 3.5 Point A Point B [0.16] Voltage adjust 16.5 Mounting Hole 185 [7.28] 173±0.5 [6.81] 145±0.5 [0.65] [0.2]  $\phi 4.5$ [0.24] 4.5 [0.18] 15 [0.59] 45 T.18 2-M4 20 [0.79] 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. 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	T	erminal
ONIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CNI	1-1123724-3	1-1123722-5	Loose	1318912-1
ONIO	1-1123723-8	1-1123722-8	Chain	1123721-1
CN2	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>

CN1		CN2	
Pin No.	Input	Pin No.	Output
1	AC(L)	1 to 4	-V
2		1 10 4	- v
3	AC(N)	E += 0	
4		5 to 8	+V
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

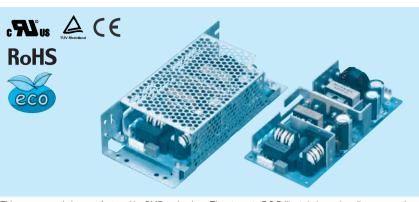
CN4 Option (Mfr:J.S.T)

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



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 (5)Output voltage

(§)Output voltage
(§)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

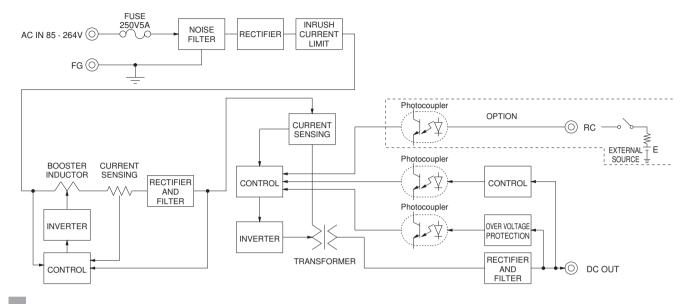
This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care.

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**

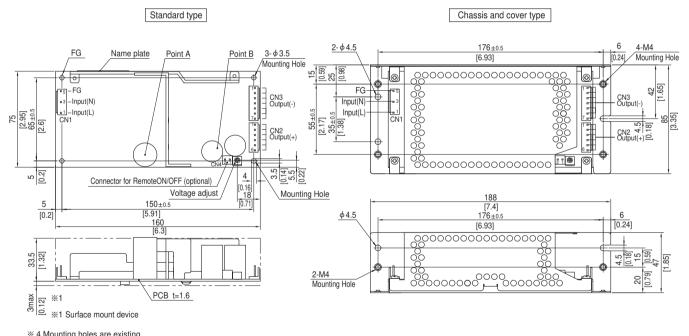
	MODEL		LFP150F-24-Y	LFP150F-36-Y	LFP150F-48-Y			
	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Instruction N	Manual 1.1 and 3.2) *5				
	OUDDENTIAL	ACIN 100V	2.0typ (lo=100%)					
	CURRENT[A] ACIN 200V		1.0typ (lo=100%)					
FREQUENCY[Hz]			0 / 60 (47 - 63)					
	EFFICIENCY[%] ACIN 100V		85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	88.0typ (lo=100%)	88.0typ (Io=100%)	88.0typ (lo=100%)			
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At cold start) (Ta=2	5typ (Io=100%) (At cold start) (Ta=25°C)				
	INNUSH CONNENT[A]	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=2					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V	60Hz, lo=100%, According to IEC6095	0-1 and DEN-AN)			
	VOLTAGE[V]		24	36	48			
	CURRENT[A]		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			
	MIFFEE[IIIVP-P] **		160max	200max	200max			
	RIPPLE NOISE[mVp-p]*		150max	250max	250max			
OUTPUT	TIII T EE NOISE[IIIVP-P]**		180max	300max	300max			
	TEMPERATURE REGULATION[mV]		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, 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 recover					
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	• 7				
	INPUT-OUTPUT-RC	*6		10mA, DC500V 50MΩ min (At Room				
ISOLATION	INPUT-FG		AC2,000V 1 minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)  AC500V 1 minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature)					
	OUTPUT-RC-FG	*6						
	OUTPUT-RC	*6		$SmA$ , DC100V 10M $\Omega$ min (At Room Te				
	OPERATING TEMP., HUMID. AND STORAGE TEMP., HUMID. AND		-10 to +70℃, 20 - 90%RH (Non condensing) (Refer to Instruction Manual 3.2), 3,000m (10,000feet) max					
<b>ENVIRONMENT</b>		ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
	VIBRATION IMPACT	-	10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
CAFETY AND	AGENCY APPROVALS (AT ON	IV AC innut	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	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISF		IN-MIN			
	HARMONIC ATTENU		Complies with FCG-B, VCGI-B, CISE Complies with IEC61000-3-2 (Class					
TILGULATIONS	CASE SIZE/WEIGHT			A) *8 ) inches] (W×H×D) / 380g max (with	chassis & cover : 610g max)			
OTHERS	COOLING METHOD			7 0 1	criassis a cover . o rug max)			
	COOLING WETHOD		Convection (Refer to Instruction Manu	ai 3. i and 3.2) *5				

- Specification is changed 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. \*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°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.



### **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/C	I/O Connector Mating connector		Terminal	
CNI	1-1123724-3	1-1123722-5	Chain	1123721-1
CNI	1-1123724-3	1-1123/22-5	Loose	1318912-1
ONIO	1-1123723-6	1-1123722-6	Chain	1123721-1
CN2	1-1123723-6	1-1123/22-6	Loose	1318912-1
ONIO	1-1123723-7	1-1123722-7	Chain	1123721-1
CN3	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>

4 0	0	· · · ·				
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: 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

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

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

Barrier strip type

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

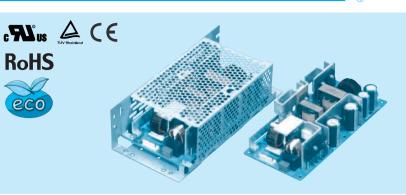
BXH-001T-P0.6 or SXH-001T-P0.6

## Ordering information

# LFP240F

LF P 240 F - -







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

- ①Series name ②Single output
- 3 Output wattage 4 Universal input 5 Output voltage
- (§)Output voltage
  (®)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 T: Vertical terminal block
- U1: Can be attached the external capacitor unit

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 OUTPUT *2	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)

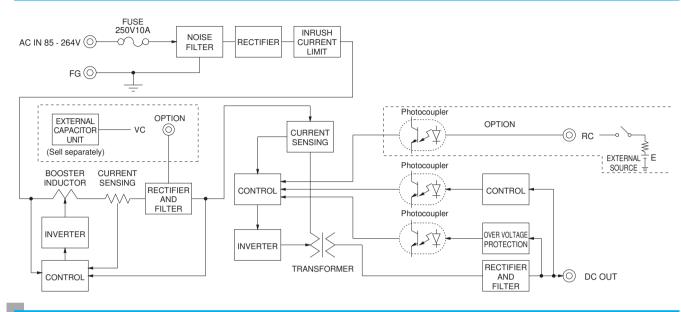
## **SPECIFICATIONS**

	MODEL		LFP240F-24-Y	LFP240F-30-Y	LFP240F-36-Y	LFP240F-48-Y	
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to 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)				
	EFFICIENCY[0/]	ACIN 100V	86.0typ (lo=100%)	86.0typ (lo=100%)	86.0typ (Io=100%)	86.0typ (Io=100%)	
INPUT	EFFICIENCY[%]	ACIN 200V	88.5typ (lo=100%)	88.5typ (lo=100%)	89.0typ (lo=100%)	89.0typ (lo=100%)	
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)				
		ACIN 200V	0.95typ (lo=100%)				
	INRUSH CURRENT[A]		15 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)				
		ACIN 200V	30 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)				
	LEAKAGE CURRENT[mA]		0.40 / 0.75max (ACIN 100V / 240V 60Hz, lo=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)	
		Forced air *2	12.5 (Peak 20)	10 (Peak 16)	8.4 (Peak 13.4)	6.3 (Peak 10)	
	LINE REGULATION[	mV] *7		144max	144max	192max	
	LOAD REGULATION			240max	240max	240max	
	RIPPLE[mVp-p] *3		120max	150max	150max	150max	
	ules refills h-h] 💀		160max	200max	200max	200max	
OUTPUT	RIPPLE NOISE[mVp-p]*3		150max	250max	250max	250max	
501701	MIPPLE NOISE[IIIVP-P]*		180max	300max	300max	300max	
	TEMPERATURE REGULATION(mV)		240max	360max	360max	480max	
	TEMPERATURE REGULATION[MV]	-10 to +50℃	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 PROTECTION		Works over 101% of rating and recovers automatically				
			27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20	
	OPERATING INDICATION		Not provided				
OTHERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)				
			AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
.002/11/011			AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-RC *6		1 10 100 1 11 11 10 10 10 10 10 10 10 10				
	OPERATING TEMP., HUMID. AND						
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE						
	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							
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		84×46×180mm [3.31×1.81×7.09 inches] (W×H×D) / 540g max (with chassis & cover : 860g max)				
	COOLING METHOD		Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5				

Specification is changed at option, refer to Instruction Manual.

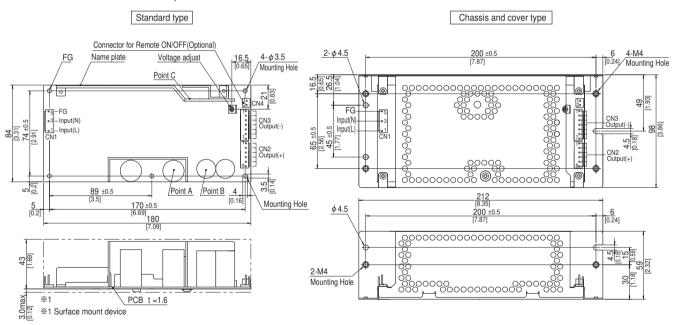
capacitor of 22 µ F at 150mm from output terminal.

- 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. \*3 This is the value that measured on measuring board with \*5 Derating is required.
- 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.
  - \*6 Applicable when remote control (optional) is added.
- Please contact us about dynamic load and input response.
- Please contact us about another class.
- By attaching an external capacitor unit, it is possible to extend the hold-up time.
- 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.



### **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.
- W Point A, Point B, Point C are thermometry points. Please
  refer to Instruction Manual 3.

refer to instruction Manual 3.							
I/C	Connector	Mating connector	Terminal				
CNI	1-1123724-3	1-1123722-5	Chain	1123721-1			
CNI	1-1123724-3		Loose	1318912-1			
ONIO	1-1123723-6	1-1123722-6	Chain	1123721-1			
CN2			1 0000	1212012 1			

1-1123722-7

Loose 1318912-1 (Mfr:Tyco Electronics)

Chain

% I/O Connector is Mfr. Tyco Electronics

CN3 1-1123723-7

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

### <PIN CONNECTION>

CN3		
Output		
-V		

- ※ 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

# Connector type CN4 Option (Mfr:J.S.T)

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

Barrier strip type

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

c**71**°us △ (€ **RoHS** eco

Recommended EMI/EMC Filter NAC-06-472

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

①Series name ②Single output

3 Output wattage 4 Universal input 5 Output voltage

(§) Output voltage
(§) Optional \*1
C: with Coating
G: Low leakage current
J: £P (Tyoc Electronics) connector type
JI: VH (J.S.T.) connector type
R: with Remote ON/OFF
R2: with Remote ON/OFF

S: with Chassis SN: with Chassis & cover

SNF: with Chassis & cover & fan (Only 24V) T1 : Holizontal terminal block U1: Can be attached the external

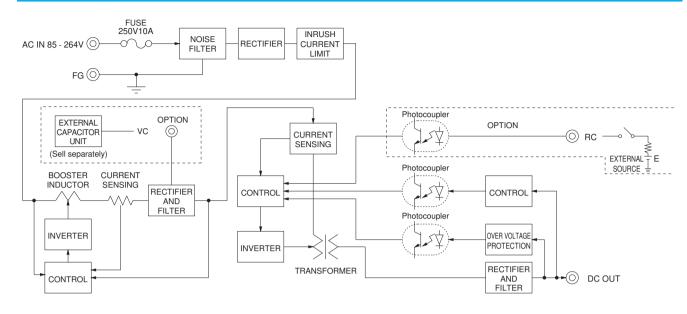
This power supply is manufactured by SN so handle the unit with care.	/ID techno	ology. The stress to P.C.B like twi	sting or bending causes the defe	ect of the unit,	U1: Can be attached the external capacitor unit Please refer to Instruction manual 6.
MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY
MAX OUTPUT WATTAGE[W]	*2	360 (600)	360 (600)	360 (604.8)	360 (604.8)
DO OUTDUT	Convection	24V 12.5A (25A)	30V 10A (20A)	36V 8.4A (16.8A)	48V 6.3A (12.6A)
DC OUTPUT *2	Forced air	24V 15A (25A)	30V 12A (20A)	36V 10A (16.8A)	48V 7.5A (12.6A)

## **SPECIFICATIONS**

	MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY		
	VOLTAGE[V]		AC85 - 264 1 $\phi$ (Refer to Instruction Manual 1.1 and 3.2) *5					
	ACIN 100V							
INPUT	CURRENT[A]	ACIN 200V	2.2typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	EEEIOIENOVIO/1	ACIN 100V	85.0typ (Io=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%)		
	2011/22 24 27 2	ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)					
	INDUOLI QUEDENTIAL	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 100)	V / 240V 60Hz, Io=100%, Ad	ccording to IEC60950-1 and D	DEN-AN)		
	VOLTAGE[V]		24	30	36	48		
		10111 10011	12.5 (Peak 22) Convection	10 (Peak 18) Convection	8.4 (Peak 14.6) Convection	6.3 (Peak 11) Convection		
	OUDDENITIAL	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]	AOIN 000V : 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 air		
	LINE REGULATION	mV] *7	96max	144max	144max	192max		
	LOAD REGULATION		150max	240max	240max	240max		
			120max	150max	150max	150max		
OUTDUT	RIPPLE[mVp-p] *3	-10 - 0℃	160max	200max	200max	200max		
OUTPUT	DIDDLE MOIOECOV	0 to +40°C	150max	250max	250max	250max		
	RIPPLE NOISE[mVp-p]*3	-10 - 0℃	180max	300max	300max	300max		
	TEMPERATURE REGULATION[mV]	0 to +40°C	240max	360max	360max	480max		
		-10 to +40°C	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							
	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 PROTEC	OVERVOLTAGE PROTECTION[V]		34.50 to 42.00	41.40 to 50.40	55.20 to 67.20		
CIRCUIT AND	OPERATING INDICA	TION	Not provided					
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Option (Refer to Instruction Manual 6)					
	INPUT-OUTPUT-RC *6							
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)					
SOLATION	OUTPUT-RC-FG	*6	AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature)					
	OUTPUT-RC *6		AC100V 1minute, Cutoff current = 25mA, DC100V 10M $\Omega$ min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND ALTITUDE *5							
NVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE							
	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								
NOISE			Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
REGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *8					
OTHERS	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)					
	COOLING METHOD		Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5					

- Specification is changed 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.
- This is the value that measured on measuring board with \*5 Derating is required. capacitor of 22  $\mu$  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°C, with the input voltage held constant at the rated input/output.

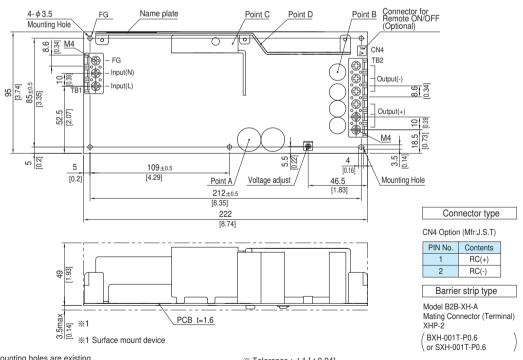
  - \*6 Applicable when remote control (optional) is added.
- Please contact us about dynamic load and input response.
- \*8 Please contact us about another class.
- By attaching an external capacitor unit, it is possible to extend the hold-up time.
- To meet the specifications. Do not operate over-loaded 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



### **External view**

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

## Standard type



- $\ensuremath{\ensuremath{\%}}$  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 (with chassis & cover: 1,270g max)
  PCB material: CEM3
- ※ Dimensions in mm, [ ]=inches
- \* Screw tightening torque: M4 1.6N · m (16.9kgf · cm) max