LFP100F

P 100

Example recommended EMI/EMC filter NAC-04-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series *A higher current rating EMI/EMC filter

may be recommended in view of the other devices that could be connected in parallel with the power supply.

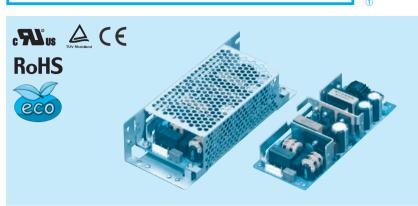
1) Series name 2) Single output 3) Output wattage 4) Universal input

(5)Output voltage Optional *1

G: 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



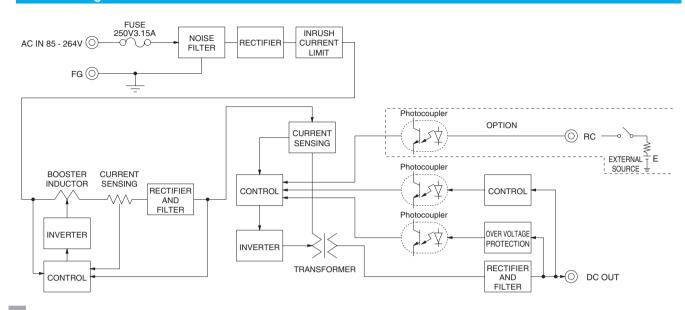
This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care. *Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

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)

	MODEL		LFP100F-24-Y	LFP100F-36-Y	LFP100F-48-Y			
			AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.2) *5					
	CUDDENTIAL	ACIN 100V	1.3typ (lo=100%)					
	CURRENT[A] ACIN 200V		0.7typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	EFFICIENCY[%]	ACIN 100V	84.0typ (lo=100%)	84.0typ (lo=100%)	84.0typ (lo=100%)			
NPUT	EFFICIENCI[%]	ACIN 200V	87.0typ (lo=100%)	87.0typ (Io=100%)	87.0typ (lo=100%)			
	POWER FACTOR	ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)	95typ (Io=100%)				
	INRUSH CURRENT[A]		15typ (lo=100%) (At cold start) (Ta=					
		ACIN 200V	30typ (lo=100%) (At cold start) (Ta=					
	LEAKAGE CURREN	T[mA]		60Hz, Io=100%, According to IEC609				
	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			
	LE[P P]		160max	200max	200max			
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max			
DUTPUT	TIII T LL NOISL[IIIVP-P]**	-	180max	300max	300max			
	TEMPERATURE REGULATION[mV]	0 to +50°C	240max	360max	480max			
		-10 to +50°C	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 reco					
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
IRCUIT AND		TION	Not provided					
THERS	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 Ω min (At Room Temperature)					
COLATION	OUTPUT:RC-FG	*6	710000 Tillinate, Oaton carrent - E					
	OUTPUT-RC	*6	AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (At Room Temperature)					
	OPERATING TEMP., HUMID. AND		3/(// // // - / -					
NVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	3/7					
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, once each 2					
AFETY AND	AGENCY APPROVALS (At only			N60950-1, EN50178 Complies with D	EN-AN			
IOISE	CONDUCTED NOISE Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B							
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class					
OTHERS	CASE SIZE/WEIGHT			nches] (WXHXD) / 290g max (with o	chassis & cover : 480g max)			
JL.10	COOLING METHOD		Convection (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. *3 This is the value that measured on measuring board with
- capacitor of 22 µ F at 150mm from output terminal.
- Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}\text{C}\,,$ with the input voltage held constant at the rated input/output.
- Derating is required.
- Applicable when remote control (optional) is added.
- *7 Please contact us about dynamic load and input response.
- *8 Please contact us about another class.
- To meet the specifications. Do not operate over-loaded condition.
- Parallel operation is not possible.
- Derating is required when operated with chassis and cover.
- Sound noise may be generated by power supply in case of pulse load.





External view

* External size of option is different from standard model.

Standard type Chassis and cover type Connector for Remote ON/OFF (Optional) 173+0.5 4-M4 2- φ 4.5 $3 - \phi 3.5$ Name plate FG [6.81] [0.24] Mounting Hole Mounting Hole 13 [0.51] 23 Ontbring (1.4.5)

10.18

36

1.4.5 CN4 FG FG CN2 Output(-) Input(N) Input(N) 72 [2.83] 62 [2.44] 52±0.5 Input(L) E Input(L) 2.05] Output(+) O0000000000000000 3.5 4 Point A Point B [0.16] Voltage adjust Mounting Hole 16.5 145±0.5 [0.65] [7.28] 173±0. [0.2] 6 $\phi 4.5$ [6.81] [0.241 [1.18] 4.5 [0.18] 15 [0.59] 30 2-M4 20 79 Mounting Hole **%**1 PCB t=1.6 [0.12] %1 Surface mount device

- * 4 Mounting holes are existing.
- $\ensuremath{\ensuremath{\%}}$ 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 are thermometry points. Please refer to Instruction Manual 3.

I/O Connector		Mating connector	Т	erminal		
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1		
CIVI	1-1123724-3	1-1123722-3	Loose	1318912-1		
CNIO	4 4400700 0	4 4400700 0	Chain	1123721-1		
CN2 1-1123723-8		1-1123722-8	Loose	1318912-1		
AK T 51 1 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		5106	+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

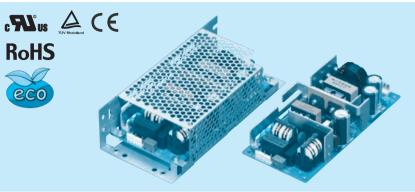
Model B2B-XH-A Mating Connector (Terminal) XHP-2

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

Ordering information

LFP150F

P 150



Example recommended EMI/EMC filter NAC-04-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series *A higher current rating EMI/EMC filter

may be recommended in view of the other devices that could be connected in parallel with the power supply.

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

(5)Output voltage Optional *1

G: 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

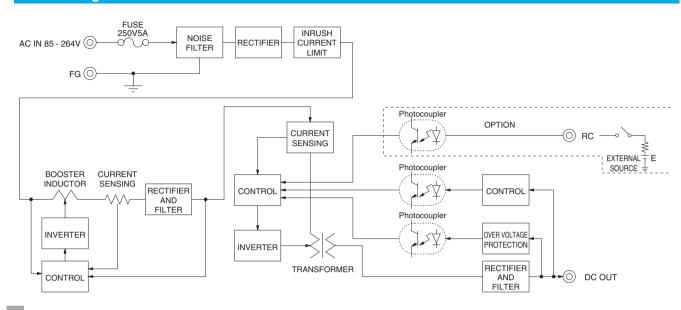
This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care. *Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	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)

	MODEL		LFP150F-24-Y	LFP150F-36-Y	LFP150F-48-Y				
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.2) *5						
	OUDDENTIAL	ACIN 100V	2.0typ (lo=100%)						
	CURRENT[A] ACIN 200V		1.0typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	EFFICIENCY[9/1		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 (Io=100%)				
	DOWED FACTOR	ACIN 100V	0.99typ (lo=100%)		•				
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)	05typ (lo=100%)					
	INRUSH CURRENT[A]		15typ (lo=100%) (At cold start) (Ta=	-25℃)					
		ACIN 200V	30typ (Io=100%) (At cold start) (Ta=	-25℃)					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V	60Hz, lo=100%, According to IEC6	0950-1 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				
	um v.rr[iii.vb-h] 💀	-10 - 0℃	160max	200max	200max				
	RIPPLE NOISE[mVp-p]*3		150max	250max	250max				
DUTPUT	HIPPLE NOISE[IIIVP-P]*	-10 - 0℃	180max	300max	300max				
	TEMPERATURE REGULATION[mV]	0 to +50°C	240max	360max	480max				
	TEMPERATURE REGULATION[IIIV]	-10 to +50°C	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 reco	overs automatically					
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20				
IRCUIT AND		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 Ω min (At Room Temperature)						
SOLATION	OUTPUT-RC-FG	*6	7.0000 Thimato, Outon current - Zoniri, Boood Coni Thin (7.0 Troom Temperature)						
	OUTPUT-RC	*6	AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (At Room Temperature)						
	OPERATING TEMP., HUMID. AND								
NVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	3/, -,						
	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						
SAFETY AND	AGENCY APPROVALS (At only		UL60950-1, C-UL (CSA60950-1), E		DEN-AN				
NOISE	CONDUCTED NOISE Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class						
OTHERS	CASE SIZE/WEIGHT			30 inches] (W×H×D) / 380g max (w	rith chassis & cover : 610g max)				
JILI10	COOLING METHOD		Convection (Refer to Instruction Manual 3.1 and 3.2) *5						

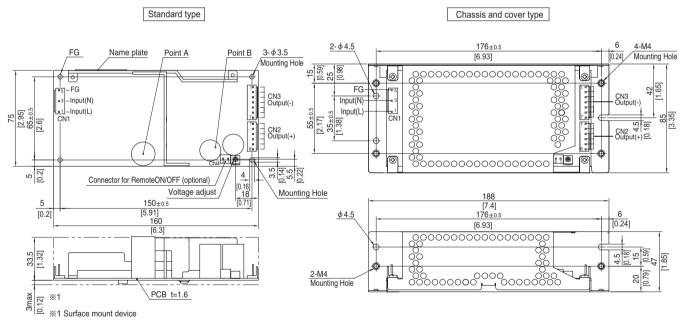
- *1 Specification is changed at option, refer to Instruction Manual.
- Peak loading for 10sec. And Duty 40% max, refer to Instruction Manual 5. In detail. () means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.
- *3 This is the value that 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.
- Derating is required.
- *6 Applicable when remote control (optional) is added.
- *7 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.
- $\ensuremath{\mathbb{X}}$ 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	ng connector Termi	
CNIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CIVI	1-1123724-3	1-1123722-5	Loose	1318912-1
CNIO	1-1123723-6	1-1123722-6	Chain	1123721-1
CNZ	1-1123723-6	1-1123722-6	Loose	1318912-1
CNIO	1-1123723-7	1-1123722-7	Chain	1123721-1
CN3	1-1123/23-/	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					
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 (Mfr:J.S.T) PIN No. Contents RC(+)

Barrier	strip	type	

RC(-)

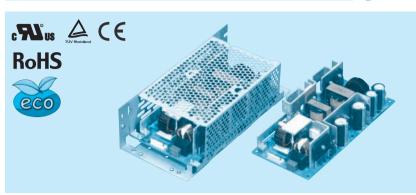
Model B2B-XH-A Mating Connector (Terminal) XHP-2

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

Ordering information

LFP240F

P 240 F -



Example recommended EMI/EMC filter NAC-06-472



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

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- 1) Series name 2) Single output 3) Output wattage 4) Universal input 5) 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.

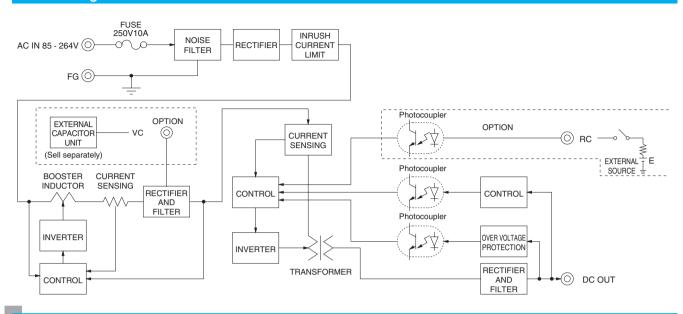
This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care. *Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL		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)
DC OUTPUT	Forced air	24V 12.5A (20A)	30V 10A (16A)	36V 8.4A (13.4A)	48V 6.3A (10A)

	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						
	CUDDENTIAL	ACIN 100V	3.6typ (lo=100%)						
	CURRENT[A]		1.8typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	EEEIOIENOVI0/1	ACIN 100V	86.0typ (Io=100%)	86.0typ (Io=100%)	86.0typ (lo=100%)	86.0typ (lo=100%)			
NPUT	EFFICIENCY[%]	ACIN 200V	88.5typ (lo=100%)	88.5typ (lo=100%)	89.0typ (Io=100%)	89.0typ (lo=100%)			
	DOWED FACTOR	ACIN 100V	0.99typ (lo=100%)						
POWER	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)						
	INDUCUI OUDDENTIAL	ACIN 100V	15 / 30typ (Io=100%) (Prim	nary inrush current /Seconda	ary inrush current) (More than	3 sec. to re-start)			
	INRUSH CURRENT[A]	ACIN 200V	30 / 30typ (Io=100%) (Prim	0 / 30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)					
	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100)	V / 240V 60Hz, lo=100%,	According to IEC60950-1 and	d DEN-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[mV] *7	96max	144max	144max	192max			
	LOAD REGULATION		150max	240max	240max	240max			
	DIDDI ElmVa n3	0 to +50°C	120max	150max	150max	150max			
	RIPPLE[mVp-p] *3	-10 - 0℃	160max	200max	200max	200max			
	DIDDLE MOIOEL-W1-	0 to +50°C	150max	250max	250max	250max			
UTPUT	RIPPLE NOISE[mVp-p]*3	-10 - 0℃	180max	300max	300max	300max			
	TEMPERATURE REQUILATIONS AND	0 to +50°C	240max	360max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50°C	290max	450max	450max	600max			
	DRIFT[mV] *4		96max	144max	144max	192max			
	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)						
	HOLD-UP TIME[ms] *9		20typ (ACIN 100V, Io=100%)						
	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 SET	TING[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 automaticall	V	·			
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]	27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20			
IRCUIT AND	OPERATING INDICA	TION	Not provided						
THERS	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 50MΩ min (At Room Temperature)						
OLATION	OUTPUT-RC-FG	*6	AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-RC	*6			MΩ min (At Room Tempera				
	OPERATING TEMP., HUMID. AND	ALTITUDE *5							
NIVIDONIMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RH	(Non condensing), 9,000m	n (30,000feet) max	-			
NVIRONMENT	VIBRATION				s each along X, Y and Z axis				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis						
AFETY AND	AGENCY APPROVALS (At only	y AC input)	UL60950-1, C-UL (CSA60	950-1), EN60950-1, EN50	178 Complies with DEN-AN				
OISE	CONDUCTED NOISE		Complies with FCC-B, VC	CI-B, CISPR22-B, EN5501	1-B, EN55022-B				
EGULATIONS	HARMONIC ATTENU	JATOR	Complies with IEC61000-3	3-2 (Class A) *8					
THERS	CASE SIZE/WEIGHT		84 × 46 × 180mm [3.31 × 1	.81 X 7.09 inches] (W X H X	(D) / 540g max (with chassis	& cover : 860g max)			
JI HEKS	COOLING METHOD		Convection / Forced air (F	Refer to Instruction Manual 3	.1 and 3.2) *5				
ale di Connectionali	on is changed at ontion, refer to		I MI NO.	MILill Bil- N-i	eter *7 Please contact us about du				

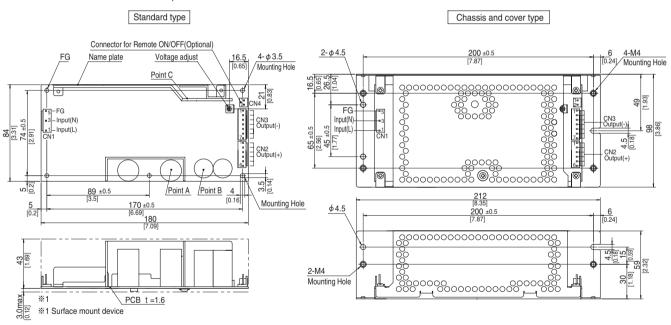
- Specification is changed at option, refer to Instruction Manual.
- Peak loading for 10sec. And Duty 40% max, refer to Instruction Manual 5. In detail.
 - () means peak current. There is a possibility that an internal device is damaged when the specification is exceeded.
- This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.
- Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at $25\,^\circ\!\text{C}\,,$ with the input voltage held constant at the rated input/output.
- Derating is required.
- *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.
- 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.



- % The back side of P.C.B. of the power supply is assembled some SMDs.
- Be attention not to bump against the attached area by vibration. W Use the spacer of 8mm length or more regarding insulation.
- And do not use press-fitting bush.
- * Point A, Point B, Point C are thermometry points. Please refer to Instruction Manual 3.

I/O Connector		Mating connector	Terminal	
CNI4	1-1123724-3	1-1123722-5	Chain	1123721-1
CIVI			Loose	1318912-1
CN2	1-1123723-6	1-1123722-6	Chain	1123721-1
			Loose	1318912-1
CN3 1-1123723-7	1-1123722-7 Chain 11237	1123721-1		
	1-1123/23-/	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							
3	AC(N)		1 to 6	+V		1 to 7	-V
4							
5	FG						
* Koop drawing current per pip below 5A for CN2 CN2							

- % 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	
1	RC(+)	
2	RC(-)	

Barrier strip type

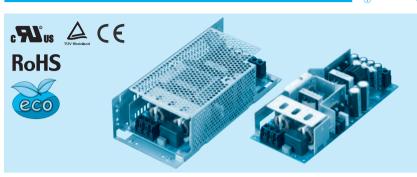
Model B2B-XH-A Mating Connector (Terminal) XHP-2

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

Ordering information

LFP300F

P 300



Example recommended EMI/EMC filter NAC-06-472



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

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

1) Series name 2) Single output 3) Output wattage 4) Universal input 5) Output voltage

Optional *1

C: with Coating
G: Low leakage current
J: EP (Tyco Electronics) connector type

J1 : 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

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. *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.

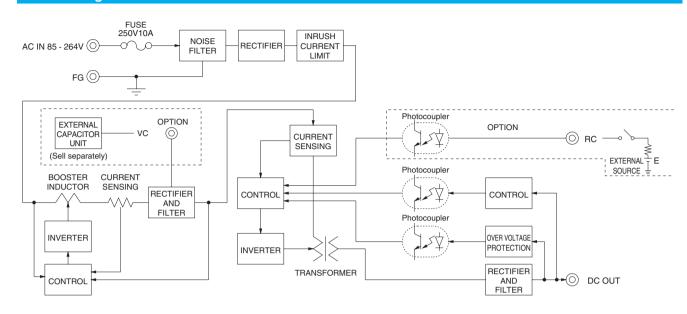
MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY
MAX OUTPUT WATTAGE[W] *2		360 (600)	360 (600)	360 (604.8)	360 (604.8)
DC OUTPUT *2	onvection	24V 12.5A (25A)	30V 10A (20A)	36V 8.4A (16.8A)	48V 6.3A (12.6A)
DC 001P01 *2 F0	orced air	24V 15A (25A)	30V 12A (20A)	36V 10A (16.8A)	48V 7.5A (12.6A)

	MODEL		LFP300F-24-TY	LFP300F-30-TY	LFP300F-36-TY	LFP300F-48-TY			
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to In:	struction Manual 1.1 and 3.2)	ķ 5	•			
	CURRENT[A]	ACIN 100V	4.3typ (lo=100%)						
	CURRENT[A]	ACIN 200V	2.2typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
INPUT	EFFICIENCY[%]	ACIN 100V	85.0typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)			
		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							
	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	mV1 *7		144max	144max	192max			
	LOAD REGULATION		150max	240max	240max	240max			
			120max	150max	150max	150max			
	RIPPLE[mVp-p] *3		160max	200max	200max	200max			
DUTPUT			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] *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 PROTECTION[V]		Ŭ	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20			
CIRCUIT AND			Not provided	0 1.00 to 12.00	11.10 to 00.10	00.20 to 07.20			
OTHERS	REMOTE SENSING		Not provided 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)						
	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)						
	OUTPUT-RC		AC100V 1minute, Cutoff current = 25mA , DC100V 10M Ω 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 ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9.000m (30,000feet) max						
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis						
SAFETY AND	AGENCY APPROVALS (At onl	v AC innut)	UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
NOISE	CONDUCTED NOISE	<u>, , , </u>	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A) *8						
	CASE SIZE/WEIGHT				ut terminal block) / 810g may (wit	h chassis & cover : 1 270g may			
OTHERS	COOLING METHOD		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) Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5						
	CCCLING WETTIOD		Convection / Forced all (He	olor to mottuction ivialidal 3.1 a	and 0.2) ***				

- 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.

 This is the value that measured on measuring board with
- capacitor of 22 µ F at 150mm from output terminal.
- Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}\text{C}\,,$ with the input voltage held constant at the rated input/output.
- *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.
- 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.
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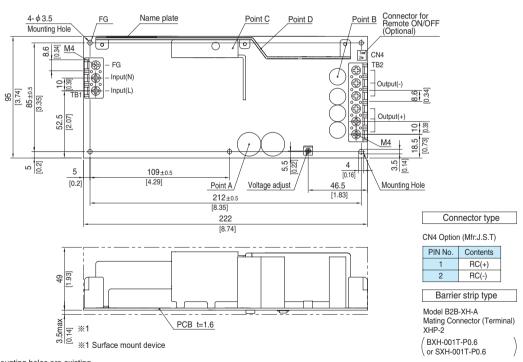




External view

* External size of option is different from standard model.

Standard type



- % 5 Mounting holes are existing.
- $\ensuremath{\mathbb{X}}$ 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.
- $\ensuremath{\,\times\,}$ 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

LFP150F-36-SNY LFP240F-30-Y LFP100F-36-SY LFP240F-24-TY LFP240F-48-R2Y LFP100F-48-GY LFP100F-24-RY LFP150F-48-Y LFP150F-24-R2Y LFP150F-36-J1Y LFP240F-48-SY LFP150F-24-SY LFP240F-30-RY LFP240F-30-GY LFP240F-36-J1Y LFP240F-36-SNY LFP150F-48-R2Y LFP150F-36-GY LFP240F-36-GY LFP240F-36-Y LFP150F-48-CY LFP240F-48-J1Y LFP240F-24-SY LFP150F-36-RY LFP150F-48-R2Y LFP150F-36-GY LFP240F-36-Y LFP150F-24-J1Y LFP240F-24-CY LFP150F-24-SNY LFP150F-36-Y LFP240F-36-GY LFP240F-30-CY LFP240F-36-TY LFP150F-48-J1Y LFP150F-36-R2Y LFP240F-30-R2Y LFP240F-36-GY LFP240F-30-CY LFP240F-36-TY LFP150F-24-RY LFP240F-36-R2Y LFP240F-30-R2Y LFP240F-24-SNY LFP150F-48-GY LFP240F-48-RY LFP150F-24-RY LFP240F-36-CY LFP240F-36-Y LFP240F-36-GY LFP240F-48-SNY LFP100F-48-R2Y LFP240F-36-CY LFP240F-36-SY LFP240F-30-SNY LFP240F-24-R2Y LFP240F-36-R2Y LFP240F-30-TY LFP150F-36-CY LFP240F-24-J1Y LFP240F-48-Y LFP150F-48-SNY LFP150F-48-SY LFP240F-36-R2Y LFP240F-24-Y LFP240F-36-SY LFP240F-36-SY LFP240F-36-R2Y LFP240F-36-R2Y LFP240F-36-SY LFP240F-36-SY LFP240F-36-R2Y LFP240F-36-R2Y LFP240F-36-SY LFP240F-36-SY LFP240F-36-RY LFP100F-48-CY LFP240F-48-SY LFP240F-36-RY LFP100F-36-RY LFP240F-36-SY LFP240F-36-SY LFP240F-30-J1Y LFP240F-30-J1Y LFP240F-36-RY LFP100F-36-RY LFP100F-24-SNY LFP240F-48-GY LFP100F-48-SY LFP240F-36-RY LFP100F-24-SNY LFP240F-36-TY LFP300F-36-TY LFP300F-36-SNTY LFP300F-36-TY LFP300F-36-SNTY LFP300F-36-TY LFP300F-36-SNTY LFP300F-36-SNTY LFP300F-36-TY LFP300F-36-SNTY LFP300F-36-SN