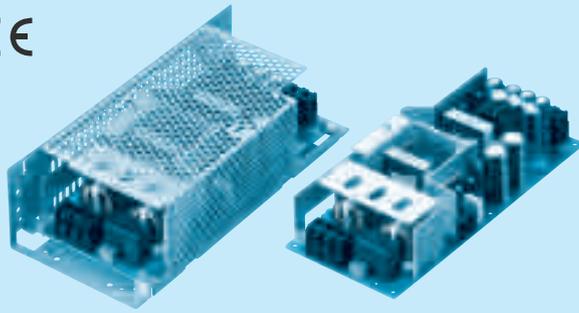
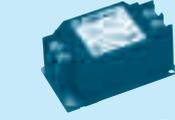


LFP300F

LF P 300 F -□ -□
 ① ② ③ ④ ⑤ ⑥



Recommended EM/EMC Filter
NAC-06-472



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

- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ 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 : Horizontal terminal block
- U1 : Can be attached the external capacitor unit

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.

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)	360 (600)	360 (604.8)	360 (604.8)
DC OUTPUT	Convection	30V 10A (20A)	36V 8.4A (16.8A)	48V 6.3A (12.6A)
	Forced air	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		
INPUT	VOLTAGE[V]	AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.2) *5					
	CURRENT[A]	ACIN 100V	4.3typ (Io=100%)				
		ACIN 200V	2.2typ (Io=100%)				
	FREQUENCY[Hz]	50 / 60 (47 - 63)					
	EFFICIENCY[%]	ACIN 100V	85.0typ (Io=100%)	85.5typ (Io=100%)	85.5typ (Io=100%)	85.5typ (Io=100%)	
		ACIN 200V	88.0typ (Io=100%)	88.0typ (Io=100%)	88.0typ (Io=100%)	88.0typ (Io=100%)	
	POWER FACTOR	ACIN 100V	0.99typ (Io=100%)				
ACIN 200V		0.95typ (Io=100%)					
INRUSH CURRENT[A]	ACIN 100V	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]	0.45 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	VOLTAGE[V]	24	30	36	48		
	CURRENT[A]	ACIN 100V*2	12.5 (Peak 22) Convection	10 (Peak 18) Convection	8.4 (Peak 14.6) Convection	6.3 (Peak 11) Convection	
			15 (Peak 22) Forced air	12 (Peak 18) Forced air	10 (Peak 14.6) Forced air	7.5 (Peak 11) Forced air	
		ACIN 200V*2	12.5 (Peak 25) Convection	10 (Peak 20) Convection	8.4 (Peak 16.8) Convection	6.3 (Peak 12.6) Convection	
			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[mV]	*7	150max	240max	240max	240max	
	RIPPLE[mVp-p]	*3	0 to +40°C	120max	150max	150max	150max
			-10 - 0°C	160max	200max	200max	200max
	RIPPLE NOISE[mVp-p]*3		0 to +40°C	150max	250max	250max	250max
			-10 - 0°C	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	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		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 101% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]	27.60 to 33.60	34.50 to 42.00	41.40 to 50.40	55.20 to 67.20		
	OPERATING INDICATION	Not provided					
	REMOTE SENSING	Not provided					
REMOTE ON/OFF	Option (Refer to Instruction Manual 6)						
ISOLATION	INPUT-OUTPUT-RC	*6 AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT-RC-FG	*6 AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT-RC	*6 AC100V 1minute, Cutoff current = 25mA, DC100V 10MΩ min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE *5	-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					
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS (AT ONLY AC input)	UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN					
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (Class A) *8					
OTHERS	CASE SIZE/WEIGHT	95 X 52.5 X 222mm [3.74 X 2.07 X 8.74 inches] (W X H X D) (without terminal block) / 810g max					
	COOLING METHOD	Convection / Forced air (Refer to Instruction Manual 3.1 and 3.2) *5					

*1 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 μF at 150mm from output terminal.

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.

*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.

*9 By attaching an external capacitor unit, it is possible to extend the hold-up time.

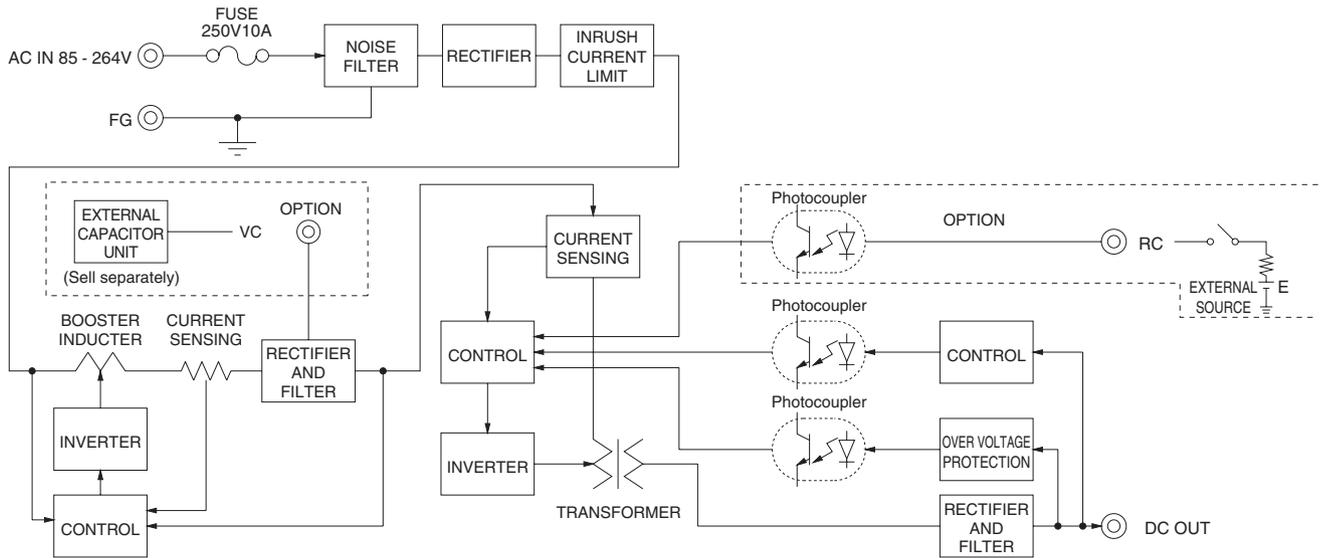
* To meet the specifications. Do not operate over-loaded condition.

* 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.

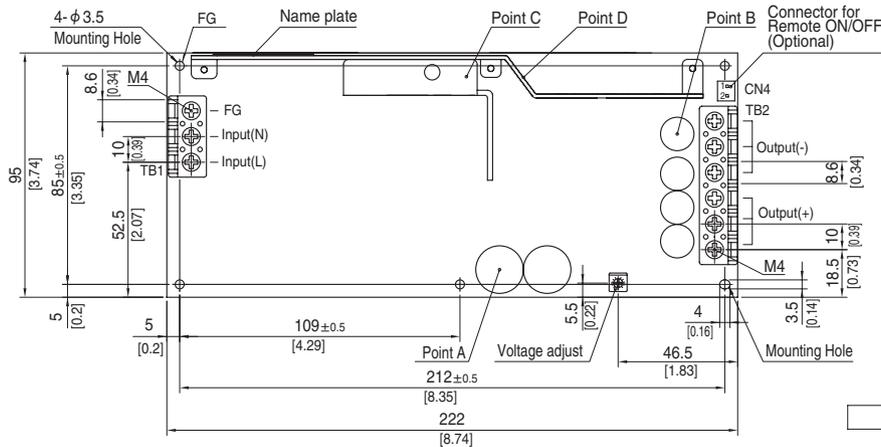
Block diagram



External view

※ External size of option is different from standard model.

Standard type



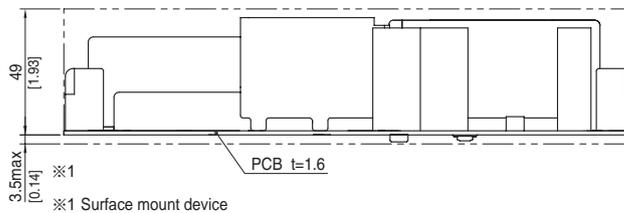
Connector type

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)



- ※ 5 Mounting holes are existing.
- ※ The back side of P.C.B. of the power supply is assembled some SMDs.
Be attention not to bump against the attached area by vibration.
- ※ Use the spacer of 8mm length or more regarding insulation.
And do not use press-fitting bush.
- ※ Point A, Point B, Point C, Point D are thermometry points.
Please refer to Instruction Manual 3.
- ※ Keep drawing current per pin below 20A for TB2.

- ※ 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